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Rio Blanco Oil Shale Project

PROGRESS REPORT 3

HYDROLOGIC PROGRAM
SECTION 1.2
RAW DATA
Volume 1

To Area Oil Shale Supervisor
United States Geological Survey

by
Wright Water Engineers
for
Gulf Oil Corporation
and
Standard Oil Company (Indiana)

#1134393262 ID: 88064843

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Sect. 1.2
v. 1
1975

RIO BLANCO OIL SHALE PROJECT
PROGRESS REPORT 3

HYDROLOGIC PROGRAM
SECTION 1.2

RAW DATA

Volume 1

July 15, 1975

Gulf Oil Corporation
and
Standard Oil Company (Indiana)

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SECTION 1.2.2

Water Analyses U.S.G.S. Stream Gaging Stations

U.S.G.S. Rain Gage Data

PROCESS DATE 07/02/75

09306235 - CORRAL GULCH BE WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DAT

DATE	TIME	TYPE	SAMPLE NUMBER (00008)	TEMPERATURE (DEG C) (00010)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TURBIDITY (JTU) (00070)	COLOR (PLATINUM-COBALT UNITS) (00080)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	DISSOLVED OXYGEN (MG/L) (00300)	PH (UNITS) (00400)	CARBON DIOXIDE (CO2) (MG/L) (00405)
MAR., 1974												
13...	1200	2	--	12.5	.14	--	--	--	--	--	--	--
14...	1130	2	--	4.5	.31	--	--	--	1060	--	7.9	7.6
25...	1300	2	--	9.0	.06	--	--	--	1100	--	7.8	10
APR.												
04...	1030	2	--	.5	.32	.33	--	--	1110	--	8.1	5.4
19...	1050	2	--	8.0	.17	.17	--	--	1100	--	7.9	7.8
27...	1000	2	--	7.5	.51	1.1	--	--	1140	9.4	7.9	9.1
MAY												
03...	1215	2	--	18.0	.49	.49	--	--	1090	6.6	8.0	6.6
17...	1050	2	1878	10.5	.75	.79	--	--	1080	6.6	7.9	8.3
24...	1430	2	--	14.0	.59	.58	--	--	1100	8.4	8.4	--
30...	1255	2	--	22.5	.54	.37	--	--	1050	7.0	7.9	7.2
JUNE												
13...	1100	2	--	21.0	--	.40	--	--	1070	7.4	8.0	6.1
13...	1200	2	--	21.0	.40	--	--	--	--	--	--	--
21...	1215	2	--	24.0	.39	.39	--	--	1070	8.6	8.1	4.8
27...	1400	2	--	27.5	.35	--	--	--	1070	7.5	8.0	5.9
JULY												
03...	0815	2	--	11.0	--	.29	--	--	1100	11.7	7.9	8.1
03...	0830	2	--	11.0	.29	--	--	--	--	--	--	--
12...	1115	2	--	20.0	.24	.24	--	--	1090	8.6	8.0	6.2
20...	--	2	--	13.0	--	.05	--	--	1080	10.2	7.8	9.9
20...	1000	2	--	13.0	.05	--	--	--	--	--	--	--
AUG.												
02...	0950	2	--	13.0	--	.41	--	--	1100	9.6	7.9	8.1
10...	1750	2	--	18.0	--	.28	--	--	1110	7.8	8.0	6.5
31...	1100	2	--	17.5	--	.33	--	--	1100	10.6	8.3	3.1
SEP.												
13...	1030	2	--	10.0	--	.31	--	--	1100	9.8	8.0	6.3
26...	1230	2	--	11.0	--	.29	--	--	1090	7.2	8.3	3.0
OCT.												
03...	1400	2	--	12.5	--	--	--	--	1070	10.0	8.3	3.1
09...	1245	2	--	16.5	--	--	--	--	1050	10.2	8.3	2.9
16...	1020	2	--	7.0	--	.51	--	--	1080	9.7	8.1	4.8
24...	1245	2	--	14.0	--	.15	--	--	1070	9.0	8.1	4.7
NOV.												
01...	1230	2	--	7.5	--	.30	--	--	1090	--	--	--
13...	1330	2	--	6.0	--	.19	--	--	1090	9.8	7.7	12
JAN., 1975												
08...	1015	2	--	5.0	--	--	2	3	1150	--	8.1	6.5

RBOSP PROGRESS REPORT

09306235 - CORRAL GULCH BE WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DA

DATE	ALKA-LINITY AS CACO3 (MG/L) (00410)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	OIL AND GREASE (MG/L) (00550)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) (00608)	DIS-SOLVED NITRITE (N) (MG/L) (00613)	DIS-SOLVED NITRATE (N) (MG/L) (00618)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L) (00660)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) (00671)
MAR., 1974												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	311	379	0	--	--	--	--	--	1.1	.09	--	.03
25...	326	398	0	--	--	--	--	--	2.2	.09	--	.03
APR.												
04...	350	427	0	--	--	--	--	--	1.2	.09	--	.03
19...	317	386	0	--	--	--	--	--	1.0	.03	--	.01
27...	372	454	0	--	--	--	--	--	.95	.15	--	.05
MAY												
03...	338	412	0	--	--	--	--	--	1.8	.06	--	.02
17...	337	411	0	--	--	--	--	--	1.9	.00	--	.00
24...	--	--	--	--	--	--	--	--	1.8	.09	--	.03
30...	291	355	0	--	--	--	--	--	1.6	.06	--	.02
JUNE												
13...	311	379	0	--	--	--	--	--	1.3	.28	--	.09
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	309	377	0	--	--	--	--	--	1.1	.03	--	.01
27...	301	367	0	--	--	--	--	--	.93	.03	--	.01
JULY												
03...	330	402	0	--	--	--	--	--	1.3	.00	--	.00
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	319	369	0	--	--	--	--	--	1.1	.03	--	.01
20...	321	391	0	--	--	--	--	--	.90	.03	--	.01
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	328	400	0	--	--	--	--	--	1.1	.00	--	.00
10...	331	404	0	--	--	--	--	--	1.3	.03	--	.01
31...	315	384	--	--	--	--	--	--	.83	.06	--	.02
SEP.												
13...	325	396	--	--	--	--	--	--	.78	.12	--	.04
26...	304	371	--	--	--	--	--	--	.72	.03	--	.01
OCT.												
03...	313	382	--	--	--	--	--	--	.01	.00	--	.00
09...	299	365	--	--	--	--	--	--	.69	.03	--	.01
16...	311	379	--	--	--	--	--	--	.81	.00	--	.00
24...	305	372	--	--	--	--	--	--	.71	.00	--	.00
NOV.												
01...	320	390	--	--	--	--	--	--	.81	.03	--	.01
13...	317	387	--	--	--	--	--	--	.82	.00	--	.00
JAN., 1975												
08...	421	513	0	9	.01	.00	.27	.31	.27	.00	.10	.00

RBOSP PROGRESS REPORT

PROCESS DATE 07/02/75

09306235 - CORRAL GULCH BE[illegible]ATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)	DIS-SOL-VED SUL-FIDE (S) (MG/L) (00746)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	PERCENT SODIUM (00932)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)
MAR., 1974												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	440	130	85	55	84	1.7	29	1.3	7.4
25...	--	--	--	460	140	92	57	85	1.7	28	1.4	8.2
APR.												
04...	--	--	--	470	120	92	58	88	1.8	29	1.4	7.1
19...	--	--	--	470	160	90	60	88	1.8	29	1.2	8.0
27...	--	--	--	460	88	87	59	88	1.8	29	1.8	7.5
MAY												
03...	--	--	--	460	120	90	56	78	1.6	27	1.7	6.7
17...	--	--	--	480	140	97	57	74	1.5	25	1.2	5.7
24...	--	--	--	490	--	92	62	76	1.5	25	.9	6.9
30...	--	--	--	450	160	82	60	78	1.6	27	1.3	6.0
JUNE												
13...	--	--	--	450	140	84	59	86	1.8	29	1.1	7.0
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	450	140	80	60	86	1.8	29	1.4	6.8
27...	16	--	--	440	140	80	59	85	1.8	29	1.5	7.3
JULY												
03...	--	--	--	500	170	96	62	83	1.6	27	1.1	6.7
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	480	160	92	60	82	1.6	27	1.8	6.4
20...	--	--	--	500	180	99	62	84	1.6	27	1.4	8.3
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	--	--	--	470	140	94	57	86	1.7	28	1.3	8.0
10...	--	--	--	450	120	88	57	66	1.8	29	1.6	8.2
31...	--	--	--	440	130	85	56	85	1.8	29	2.5	9.4
SEP.												
13...	--	--	--	440	120	62	70	84	1.7	29	2.8	9.5
26...	--	--	--	450	150	78	62	86	1.8	29	2.1	8.1
OCT.												
03...	--	--	--	410	93	72	55	89	1.9	32	.6	7.8
09...	--	--	--	390	93	68	54	89	2.0	33	.9	8.1
16...	--	--	--	440	130	88	54	89	1.8	30	1.4	7.2
24...	--	--	--	410	100	81	50	86	1.9	31	1.5	7.5
NOV.												
01...	--	--	--	430	110	86	53	88	1.8	31	1.5	7.5
13...	--	--	--	430	120	78	58	90	1.9	31	.7	7.3
JAN., 1975												
08...	--	.00	.1	510	65	92	67	120	2.3	34	1.6	9.5

RBOSP PROGRESS REPORT

PROCESS DATE 07/02/75

09306235 - CORRAL GULCH BE WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DA

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYL-LIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)
MAR., 1974												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	280	.3	20	--	--	--	--	--	--	--	--	--
25...	280	.6	19	--	--	--	--	--	--	--	--	--
APR.												
04...	260	.8	19	1	--	--	--	--	1	--	--	--
19...	320	.3	22	23	--	--	--	--	3	--	--	--
27...	270	.9	24	--	--	--	--	--	--	--	--	--
MAY												
03...	260	1.5	24	--	--	--	--	--	--	--	--	--
17...	260	.7	23	9	120	<5	<10	80	2	<7	<14	5
24...	270	.3	24	2	0	--	--	90	1	--	--	3
30...	270	.3	24	4	200	--	--	110	1	--	--	4
JUNE												
13...	290	.3	22	5	200	--	--	100	2	--	--	10
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	270	.2	22	4	0	--	--	100	1	--	--	2
27...	290	.2	18	4	<100	--	--	40	2	--	--	6
JULY												
03...	270	.2	21	8	<100	--	--	100	0	--	--	2
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	280	.2	22	5	<100	--	--	120	3	--	--	6
20...	290	.2	13	3	0	--	--	80	2	--	--	14
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	290	.2	23	4	0	--	--	100	<1	--	--	4
10...	290	.2	22	4	0	--	--	100	<1	--	--	7
31...	290	.2	22	2	0	--	--	110	<1	--	--	3
SEP.												
13...	280	.2	21	4	0	--	--	100	1	--	--	5
26...	290	.3	22	5	0	--	--	30	5	--	--	13
OCT.												
03...	290	.0	.2	1	0	--	--	100	<1	--	--	2
09...	260	.2	21	6	0	--	--	110	<1	--	--	3
16...	280	.2	21	8	<100	--	--	70	0	--	--	2
24...	290	.3	22	4	0	--	--	130	0	--	--	3
NOV.												
01...	270	.2	21	5	<100	--	--	60	0	--	--	1
13...	280	.2	19	6	0	--	--	90	0	--	--	1
JAN.. 1975												
08...	310	.3	19	4	<100	--	--	120	0	0	--	1

RBOSP PROGRESS REPORT

09306235 - CORRAL GULCH BE[illegible] WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)
MAR., 1974												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	20	--	0	--	--	--	--	--	--	--	--	--
25...	0	--	0	--	--	--	--	--	--	--	--	--
APR.												
04...	20	--	--	--	--	--	--	--	--	--	--	--
19...	80	--	0	--	--	--	--	--	--	--	--	--
27...	250	--	40	--	--	--	--	--	--	--	--	--
MAY												
03...	60	--	20	--	--	--	--	--	--	--	--	--
17...	140	<14	10	40	<7	<2	1500	<10	340	<10	220	<7
24...	20	2	10	--	--	--	--	--	10	--	--	--
30...	10	2	0	--	--	--	--	--	20	--	--	--
JUNE												
13...	190	15	0	--	--	--	--	--	30	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	20	5	0	--	--	--	--	--	10	--	--	--
27...	70	4	160	--	--	--	--	--	0	--	--	--
JULY												
03...	40	3	0	--	--	--	--	--	0	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	100	7	20	--	--	--	--	--	20	--	--	--
20...	80	7	0	--	--	--	--	--	10	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	150	3	10	--	--	--	--	--	10	--	--	--
10...	120	3	30	--	--	--	--	--	10	--	--	--
31...	280	4	0	--	--	--	--	--	10	--	--	--
SEP.												
13...	70	2	10	--	--	--	--	--	10	--	--	--
26...	200	3	0	--	--	--	--	--	0	--	--	--
OCT.												
03...	90	0	0	--	--	--	--	--	110	--	--	--
09...	100	230	10	--	--	--	--	--	410	--	--	--
16...	20	6	0	--	--	--	--	--	80	--	--	--
24...	20	3	0	--	--	--	--	--	10	--	--	--
NOV.												
01...	50	2	0	--	--	--	--	--	30	--	--	--
13...	30	0	0	--	--	--	--	--	10	--	--	--
JAN., 1975												
08...	10	3	50	--	--	--	--	--	10	--	--	--

RBOSP PROGRESS REPORT

PROCESS DAT[illegible]/02/75

09306235 - CORRAL GULCH BE [illegible] WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	DIS_SOLVED AMMONIA (NH4) (MG/L) (71846)	DIS_SOLVED NITRATE (NO3) (MG/L) (71851)
MAR., 1974												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	725	.61	.99	--	--	--
25...	--	--	--	--	--	--	749	.12	1.02	--	--	--
APR.												
04...	--	--	--	--	--	--	742	.64	1.01	--	--	--
19...	--	--	4	--	--	--	784	.36	1.07	--	--	--
27...	--	--	--	--	--	0	767	1.06	1.04	--	--	--
MAY												
03...	--	--	--	--	--	0	729	.96	.99	--	--	--
17...	<14	14	7	9	<20	0	730	1.48	.99	--	--	--
24...	--	20	4	--	--	0	--	--	--	--	--	--
30...	--	20	8	--	--	0	704	1.03	.96	--	--	--
JUNE												
13...	--	20	4	--	--	0	743	.80	1.01	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	20	7	--	--	0	717	.75	.98	--	--	--
27...	--	20	5	--	--	0	726	.69	.99	--	--	--
JULY												
03...	--	0	5	--	--	0	744	.58	1.01	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	0	5	--	--	0	741	.48	1.01	--	--	--
20...	--	10	1	--	--	0	755	.10	1.03	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	--	0	4	--	--	0	762	.84	1.04	--	--	--
10...	--	0	2	--	--	0	758	.57	1.03	--	--	--
31...	--	0	4	--	--	0	744	.66	1.01	--	--	--
SEP.												
13...	--	10	2	--	--	0	729	.61	.99	--	--	--
26...	--	0	4	--	--	0	735	.58	1.00	--	--	--
OCT.												
03...	--	0	4	--	--	0	703	--	.96	--	--	--
09...	--	0	3	--	--	0	685	--	.93	--	--	--
16...	--	0	3	--	--	0	732	1.01	1.00	--	--	--
24...	--	10	6	--	--	0	725	.29	.99	--	--	--
NOV.												
01...	--	20	4	--	--	--	723	.59	.98	--	--	--
13...	--	0	3	--	--	0	728	.37	.99	--	--	--
JAN., 1975												
08...	--	10	3	--	--	--	874	--	1.19	.05	.01	1.2

RBOSP PROGRESS REPORT

PROCESS DATE 07/02/75

09306235 - CORRAL GULCH BE WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS- SOLVED NITRITE (NO2) (MG/L) (71856)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	SUS- PENDED SEDI- MENT (MG/L) (80154)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY) (80155)
MAR., 1974					
13...	--	--	6980	388	.15
14...	--	--	6980	--	--
25...	--	--	6980	114	.02
APR.					
04...	--	.0	6980	1600	1.3
19...	--	--	6980	68	.03
27...	--	--	6980	2080	2.8
MAY					
03...	--	--	6980	2980	3.9
17...	--	--	6980	2190	4.4
24...	--	.0	6980	537	.86
30...	--	.0	6980	98	.14
JUNE					
13...	--	.0	6980	--	--
13...	--	--	6980	0	.00
21...	--	.0	6980	3	.00
27...	--	.1	6980	--	--
JULY					
03...	--	.1	6980	--	--
03...	--	--	6980	79	.06
12...	--	.0	6980	30	.02
20...	--	.0	6980	--	--
20...	--	--	6980	158	.02
AUG.					
02...	--	.0	6980	--	--
10...	--	.0	6980	--	--
31...	--	.0	6980	--	--
SEP.					
13...	--	.5	6980	--	--
26...	--	.0	6980	--	--
OCT.					
03...	--	.0	6980	--	--
09...	--	.1	6980	--	--
16...	--	.0	6980	--	--
24...	--	.0	6980	--	--
NOV.					
01...	--	.0	6980	--	--
13...	--	.1	6980	--	--
JAN., 1975					
08...	.00	1.2	6980	--	--

RBOSP PROGRESS REPORT

09306235 - CORRAL GULCH BE' ATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	TYPE	TEMPERATURE (DEG C) (00010)	WEATHER (00041)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TURBIDITY (JTU) (00070)	COLOR (PLATINUM-COBALT UNITS) (00080)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	DISSOLVED OXYGEN (MG/L) (00300)	PH (UNITS) (00400)	CARBON DIOXIDE (CO2) (MG/L) (00405)	ALKALINITY AS CACO3 (MG/L) (00410)
APR., 1975												
09...	1400	2	2.0	73	.04	450	9	1080	--	8.5	2.0	324
MAY												
14...	1045	2	20.0	0	.02	18	10	1100	8.7	7.7	11	291

RBOSP PROGRESS REPORT

PROCESS DATE 0[illegible]/02/75

09306235 - CORRAL GULCH BL WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08 TE

WATER QUALITY DATA

DATE	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	OIL AND GREASE (MG/L) (00550)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) (00608)	DIS-SOLVED NITRITE (N) (MG/L) (00613)	DIS-SOLVED NITRATE (N) (MG/L) (00618)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	PHOS-PHATE (PO4) (MG/L) (00650)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L) (00660)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) (00671)
APR.. 1975												
09...	395	0	3	.09	.00	.98	4.2	.98	--	.06	1.3	.02
MAY												
14...	355	0	0	.03	.00	.50	.30	.50	.09	.06	.03	.02

RBOSP PROGRESS REPORT

9

PROCESS DATE 02/75

09306235 - CORRAL GULCH BEL ATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CYANIDE (CN) (MG/L) (00720)	DIS-SOLVED SULFIDE (S) (MG/L) (00746)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	PERCENT SODIUM (00932)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
APR., 1975												
09...	.00	.2	460	140	85	60	86	1.7	29	1.6	7.8	270
MAY												
14...	.01	.0	420	130	76	56	91	1.9	32	1.5	8.9	290

RBOSP PROGRESS REPORT

09306235 - CORRAL GULCH BE[illegible]ATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED BARIUM (BA) (UG/L) (01005)	DISSOLVED BORON (B) (UG/L) (01020)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COPPER (CU) (UG/L) (01040)	DISSOLVED IRON (FE) (UG/L) (01046)	DISSOLVED LEAD (PB) (UG/L) (01049)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	DISSOLVED ZINC (ZN) (UG/L) (01090)
APR., 1975												
09...	.2	19	4	<100	90	0	0	8	50	0	0	20
MAY												
14...	.2	18	4	100	90	0	0	2	20	1	0	10

RBOSP PROGRESS REPORT

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PROCESS DATE /02/75

09306235 - CORRAL GULCH BE WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	DIS_SOLVED AMMONIA (NH4) (MG/L) (71846)	DIS_SOLVED NITRATE (NO3) (MG/L) (71851)	DIS_SOLVED NITRITE (NO2) (MG/L) (71856)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)
APR., 1975												
09...	20	4	1	729	.08	.99	.45	.12	4.3	.00	1.0	6980
MAY												
14...	20	4	0	719	.04	.98	.04	.04	2.2	.00	.0	6980

RBOSP PROGRESS REPORT

PROCESS DATE [illegible]7/02/75
DISTRICT CODE 08

09306240 - BOX ELDER GULCH [illegible] R RANGELY, CO.

WATER QUALITY DATA

DATE	TIME	TYPE	SAMPLE NUMBER (00008)	TEMPERATURE (DEG C) (00010)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	DISSOLVED OXYGEN (MG/L) (00300)	PH (UNITS) (00400)	CARBON DIOXIDE (CO2) (MG/L) (00405)	ALKALINITY AS CACO3 (MG/L) (00410)	BICARBONATE (HCO3) (MG/L) (00440)
APR.. 1974												
27...	1135	2	--	10.0	2.6	2.5	898	9.0	7.9	7.8	317	386
MAY												
03...	1300	2	--	18.0	2.3	2.3	865	7.6	8.1	4.7	305	372
17...	1215	2	1879	12.5	2.4	2.4	822	7.0	8.0	5.7	291	355
24...	1110	2	--	16.0	1.3	--	--	--	--	--	--	--
24...	1230	2	--	16.0	--	1.3	1160	9.8	7.9	9.1	372	453
30...	1420	2	--	25.0	.70	.69	772	7.0	8.2	3.1	253	309

WATER QUALITY DATA

DATE	CARBONATE (CO3) (MG/L) (00445)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L) (00660)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) (00671)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	SODIUM ADSORPTION RATIO (00931)	PERCENT SODIUM (00932)	DISSOLVED POTASSIUM (K) (MG/L) (00935)
APR., 1974												
27...	0	1.5	.06	.02	410	96	86	48	52	1.1	21	1.1
MAY												
03...	0	1.4	.00	.00	380	79	73	49	66	1.5	27	1.1
17...	0	1.4	.06	.02	380	84	76	45	48	1.1	22	.7
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	0	.75	.09	.03	460	87	83	61	93	1.9	31	1.4
30...	0	1.0	.06	.02	330	77	58	45	53	1.3	26	1.0

RBOSP PROGRESS REPORT

PROCESS DATE [illegible]02/75

09306240 - BOX ELDER GULCH [illegible] RANGELY, CO.

DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYL-LIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)
APR., 1974												
27...	5.2	170	.7	23	--	--	--	--	--	--	--	--
MAY												
03...	6.4	170	.3	24	--	--	--	--	--	--	--	--
17...	5.2	150	.5	23	15	93	<4	<8	70	1	<5	<10
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	8.2	280	.4	23	3	0	--	--	110	1	--	--
30...	5.5	160	.4	24	7	200	--	--	80	2	--	--

RBOSP PROGRESS REPORT

PROCESS DATE [illegible]/02/75

09306240 - BOX ELDER GULCH [illegible] RANGELY, CO.

DISTRICT CODE 08

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WATER QUALITY DATA

DATE	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)
APR., 1974												
27...	--	500	--	20	--	--	--	--	--	--	--	--
MAY												
03...	--	120	--	0	--	--	--	--	--	--	--	--
17...	3	30	<10	0	35	<5	<1	1000	<5.0	65	<8	70
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	22	20	1	0	--	--	--	--	--	10	--	--
30...	7	10	11	0	--	--	--	--	--	20	--	--

RBOSP PROGRESS REPORT

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PROCESS DATE 07/02/75
DISTRICT CODE 08

09306240 - BOX ELDER GULCH R RANGELY, CO.

WATER QUALITY DATA

DATE	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)
APR., 1974									
27...	--	--	--	--	--	--	0	584	4.10
MAY									
03...	--	--	--	--	--	--	0	580	3.62
17...	<5	<10	10	6	<5	<16	0	530	3.52
24...	--	--	--	--	--	--	--	--	--
24...	--	--	20	4	--	--	0	777	2.83
30...	--	--	10	4	--	--	0	504	.95

PROCESS DATE 07/02/75
DISTRICT CODE 08

09306240 - BOX ELDER GULCH NR RANGELY, CO.

WATER QUALITY DATA

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) (80155)
APR., 1974					
27...	.79	--	6955	1080	7.5
MAY					
03...	.79	--	6955	628	3.9
17...	.72	--	6955	324	2.1
24...	--	--	6955	127	.46
24...	1.06	.0	6955	--	--
30...	.69	.2	6955	57	.11

RBOSP PROGRESS REPORT

PROCESS DATE [illegible]/02/75

09306242 - CORRAL GULCH NE[illegible]ANGELY. CO.

DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	TYPE	SAMPLE NUMBER (00008)	TEMPERATURE (DEG C) (00010)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TURBIDITY (JTU) (00070)	COLOR (PLATINUM-COBALT UNITS) (00080)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	DISSOLVED OXYGEN (MG/L) (00300)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	PH (UNITS) (00400)
MAR., 1974												
14...	1400	2	--	13.0	.47	--	--	--	1280	--	--	8.0
25...	1200	2	--	9.5	.20	--	--	--	1280	--	--	7.7
APR.												
04...	1215	2	--	8.5	--	.38	--	--	1290	--	--	7.9
19...	1200	2	--	9.0	--	.27	--	--	1280	--	--	7.9
27...	1430	2	--	14.0	--	1.1	--	--	1120	7.0	--	8.0
MAY												
03...	1400	2	--	17.0	--	1.3	--	--	1090	7.2	--	8.0
17...	1410	2	1680	14.5	--	2.0	--	--	1050	6.8	--	8.0
24...	1630	2	--	12.5	--	.94	--	--	797	6.6	--	8.0
30...	1525	2	--	14.0	--	1.0	--	--	1170	6.0	--	7.8
JUNE												
13...	1245	2	--	14.0	--	.89	--	--	1200	6.2	--	7.8
21...	1315	2	--	16.0	--	1.0	--	--	1180	8.0	--	7.9
27...	1600	2	--	13.0	--	.84	--	--	1210	7.9	--	7.8
JULY												
03...	1000	2	--	12.0	--	1.1	--	--	1180	9.0	--	8.0
12...	1215	2	--	15.0	--	1.0	--	--	1200	7.0	--	7.7
20...	1100	2	--	15.0	--	1.2	--	--	1430	6.0	--	7.8
AUG.												
02...	1050	2	--	11.0	--	.86	--	--	1220	8.4	--	8.0
10...	1850	2	--	10.0	--	.80	--	--	1240	7.4	--	7.8
31...	1230	2	--	12.0	--	.69	--	--	1240	8.8	--	7.7
SEP.												
13...	1130	2	--	11.0	--	.47	--	--	1250	10.0	--	7.5
26...	1330	2	--	15.0	--	.58	--	--	1590	6.9	--	8.0
OCT.												
03...	1430	2	--	10.0	--	--	--	--	1340	9.0	--	8.0
09...	1345	2	--	14.5	--	--	--	--	1240	10.3	--	7.9
16...	1300	2	--	12.0	--	.16	--	--	1180	13.0	--	7.8
24...	1415	2	--	10.0	--	.60	--	--	1230	9.7	--	7.6
NOV.												
01...	1045	2	--	8.0	--	.45	--	--	1220	8.6	--	8.1
13...	1445	2	--	9.0	--	.32	--	--	1220	9.5	--	7.7
DEC.												
11...	1300	2	751800	8.0	--	.40	4	3	1175	11.0	11	8.0
23...	1400	2	--	7.0	--	.36	2	10	1300	9.8	--	7.8
JAN., 1975												
08...	1015	2	--	--	--	--	--	--	--	10.0	--	--
21...	1445	2	--	6.0	--	.53	5	0	1290	10.6	--	7.9

PROCESS DATE [illegible]/02/75

09306242 - CORRAL GULCH NE ANGELY, CO.

DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	ALKA-LINITY AS CACO3 (MG/L) (00410)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	OIL AND GREASE (MG/L) (00550)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) (00608)	DIS-SOLVED NITRITE (N) (MG/L) (00613)	DIS-SOLVED NITRATE (N) (MG/L) (00618)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)
MAR., 1974												
14...	8.1	413	504	0	--	--	--	--	--	--	--	.17
25...	16	414	505	0	--	--	--	--	--	--	--	.18
APR.												
04...	10	413	504	0	--	--	--	--	--	--	--	.18
19...	10	422	514	0	--	--	--	--	--	--	--	.21
27...	7.1	366	446	0	--	--	--	--	--	--	--	2.0
MAY												
03...	7.0	361	440	0	--	--	--	--	--	--	--	.91
17...	6.7	344	419	0	--	--	--	--	--	--	--	.97
24...	5.2	268	327	0	--	--	--	--	--	--	--	1.3
30...	12	381	464	0	--	--	--	--	--	--	--	.52
JUNE												
13...	12	390	476	0	--	--	--	--	--	--	--	.46
21...	9.4	381	465	0	--	--	--	--	--	--	--	.35
27...	12	386	471	0	--	--	--	--	--	--	--	.29
JULY												
03...	7.4	381	465	0	--	--	--	--	--	--	--	.39
12...	15	391	477	0	--	--	--	--	--	--	--	.33
20...	17	564	688	0	--	--	--	--	--	--	--	.31
AUG.												
02...	7.6	392	478	0	--	--	--	--	--	--	--	1.1
10...	12	397	484	0	--	--	--	--	--	--	--	1.5
31...	16	404	492	--	--	--	--	--	--	--	--	.87
SEP.												
13...	25	404	493	--	--	--	--	--	--	--	--	.65
26...	12	627	764	--	--	--	--	--	--	--	--	.55
OCT.												
03...	8.2	419	511	--	--	--	--	--	--	--	--	.26
09...	9.9	404	493	--	--	--	--	--	--	--	--	.41
16...	11	350	427	--	--	--	--	--	--	--	--	.02
24...	19	379	462	--	--	--	--	--	--	--	--	.41
NOV.												
01...	5.6	359	438	--	--	--	--	--	--	--	--	.38
13...	16	405	494	--	--	--	--	--	--	--	--	.36
DEC.												
11...	8.2	422	515	0	930	1	1	.04	.00	.28	.45	.28
23...	13	417	509	0	--	--	3	.01	.00	.38	.40	.38
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	10	418	510	0	--	--	6	.01	.00	.31	.31	.31

WATER QUALITY DATA

DATE	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L) (00660)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) (00671)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)	DIS-SOL-VED SUL-FIDE (S) (MG/L) (00746)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)
MAR., 1974												
14...	.15	--	.05	--	--	--	520	110	93	70	110	2.1
25...	.12	--	.04	--	--	--	500	89	91	67	110	2.1
APR.												
04...	.09	--	.03	--	--	--	510	100	92	69	110	2.1
19...	.12	--	.04	--	--	--	510	86	93	67	110	2.1
27...	.09	--	.03	--	--	--	510	140	110	57	74	1.4
MAY												
03...	.09	--	.03	--	--	--	440	81	83	57	87	1.8
17...	.09	--	.03	--	--	--	430	88	79	57	80	1.7
24...	.09	--	.03	--	--	--	360	87	68	45	51	1.2
30...	.09	--	.03	--	--	--	460	84	82	63	97	2.0
JUNE												
13...	.40	--	.13	--	--	--	470	84	86	63	110	2.2
21...	.06	--	.02	--	--	--	480	98	88	63	100	2.0
27...	.09	--	.03	--	--	--	480	97	88	64	100	2.0
JULY												
03...	.00	--	.00	--	--	--	470	88	84	63	100	2.0
12...	.03	--	.01	--	--	--	440	52	82	58	110	2.3
20...	.03	--	.01	--	--	--	410	0	75	55	180	3.9
AUG.												
02...	.03	--	.01	--	--	--	470	74	86	61	110	2.2
10...	.03	--	.01	--	--	--	460	66	88	59	100	2.0
31...	.09	--	.03	--	--	--	470	70	84	64	100	2.0
SEP.												
13...	.15	--	.05	--	--	--	500	100	90	68	110	2.1
26...	.03	--	.01	--	--	--	400	0	71	55	230	5.0
OCT.												
03...	.18	--	.06	--	--	--	500	77	90	66	120	2.3
09...	.09	--	.03	--	--	--	490	85	89	65	110	2.2
16...	.03	--	.01	--	--	--	480	130	87	64	120	2.4
24...	.03	--	.01	--	--	--	440	57	87	53	110	2.3
NOV.												
01...	.06	--	.02	--	--	--	450	86	86	56	110	2.3
13...	.06	--	.02	--	--	--	470	65	86	62	110	2.2
DEC.												
11...	.03	.02	.01	15	.00	.2	500	73	92	64	120	2.4
23...	.09	.01	.03	--	.00	.8	480	64	89	63	110	2.2
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.06	.03	.02	--	.00	.0	470	55	84	64	110	2.2

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WATER QUALITY DATA

DATE	PERCENT SODIUM (00932)	DIS-SOLVED POTASSIUM (K) (MG/L) (00935)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYLLIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CADMIUM (CD) (UG/L) (01025)
MAR., 1974												
14...	31	1.8	9.2	340	.5	19	--	--	--	--	--	--
25...	32	1.7	8.6	320	.6	20	--	--	--	--	--	--
APR.												
04...	32	1.4	8.7	320	.5	20	2	--	--	--	--	1
19...	32	1.4	8.4	360	1.1	23	5	--	--	--	--	2
27...	24	1.8	5.9	270	.4	23	--	--	--	--	--	--
MAY												
03...	30	1.7	8.0	250	.4	23	--	--	--	--	--	--
17...	29	1.3	6.6	230	.4	22	14	120	<5	<9	90	2
24...	24	.7	6.0	160	.4	24	4	0	--	--	80	1
30...	31	1.5	7.7	280	.4	23	5	100	--	--	120	1
JUNE												
13...	33	1.9	9.0	290	.4	22	6	0	--	--	110	2
21...	31	1.5	8.0	270	.3	21	6	0	--	--	110	1
27...	31	1.4	8.9	310	.4	22	3	<100	--	--	100	1
JULY												
03...	32	1.4	7.8	290	.2	17	6	<100	--	--	120	0
12...	35	1.7	11	280	.3	22	7	<100	--	--	120	0
20...	49	1.9	13	250	2.5	18	5	0	--	--	540	1
AUG.												
02...	34	1.6	9.2	300	.3	22	5	0	--	--	120	1
10...	32	1.6	10	280	.3	23	4	0	--	--	130	<1
31...	31	2.4	10	260	.3	23	4	0	--	--	130	<1
SEP.												
13...	32	3.0	11	290	.3	22	4	0	--	--	100	1
26...	55	2.9	19	240	3.1	21	8	0	--	--	670	1
OCT.												
03...	34	2.3	9.8	320	.4	23	5	0	--	--	60	1
09...	33	.8	9.1	300	.3	21	7	0	--	--	120	<1
16...	35	1.0	9.1	270	.3	14	6	0	--	--	120	<1
24...	35	1.9	8.6	300	.4	22	3	0	--	--	150	0
NOV.												
01...	35	1.9	8.1	300	.3	22	5	<100	--	--	80	0
13...	34	1.0	8.4	290	.3	22	7	0	--	--	120	0
DEC.												
11...	35	1.5	11	300	.4	21	6	53	<2	<6	90	<20
23...	33	1.6	8.8	300	.4	21	4	<100	--	--	110	0
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	34	1.6	8.6	300	.4	21	4	0	--	--	120	1

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WATER QUALITY DATA

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
MAR.. 1974												
14...	--	--	--	60	--	30	--	--	--	--	--	--
25...	--	--	--	90	--	20	--	--	--	--	--	--
APR.												
04...	--	--	--	40	--	38	--	--	--	--	--	--
19...	--	--	--	30	--	10	--	--	--	--	--	--
27...	--	--	--	130	--	0	--	--	--	--	--	--
MAY												
03...	--	--	--	40	--	0	--	--	--	--	--	--
17...	<6	<13	<3	70	<13	0	35	<6	<2	1300	<6.0	77
24...	--	--	13	30	2	0	--	--	--	--	--	10
30...	--	--	2	40	8	0	--	--	--	--	--	10
JUNE												
13...	--	--	10	20	16	20	--	--	--	--	--	40
21...	--	--	2	40	18	0	--	--	--	--	--	10
27...	--	--	1	10	3	0	--	--	--	--	--	30
JULY												
03...	--	--	2	30	2	0	--	--	--	--	--	0
12...	--	--	1	40	3	40	--	--	--	--	--	20
20...	--	--	6	40	2	20	--	--	--	--	--	50
AUG.												
02...	--	--	3	190	3	30	--	--	--	--	--	20
10...	--	--	3	50	2	30	--	--	--	--	--	20
31...	--	--	2	240	4	10	--	--	--	--	--	50
SEP.												
13...	--	--	3	50	0	40	--	--	--	--	--	10
26...	--	--	4	60	2	10	--	--	--	--	--	20
OCT.												
03...	--	--	10	140	2	20	--	--	--	--	--	10
09...	--	--	1	110	6	50	--	--	--	--	--	80
16...	--	--	0	40	3	50	--	--	--	--	--	100
24...	--	--	0	20	3	10	--	--	--	--	--	10
NOV.												
01...	--	--	0	30	1	10	--	--	--	--	--	30
13...	--	--	0	20	1	30	--	--	--	--	--	20
DEC.												
11...	<6	<6	1	25	<6	47	26	<5	0	2000	4.0	<20
23...	0	--	4	30	1	30	--	--	--	--	--	40
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	10	--	2	10	4	20	--	--	--	--	--	20

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WATER QUALITY DATA

DATE	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS-PENDED GROSS BETA AS CS-137 (PC/L) (03516)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)
MAR., 1974												
14...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	2	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	0	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	0	--	--	--
17...	<9	60	<6	<13	9	7	<6	<20	0	--	--	--
24...	--	--	--	--	20	3	--	--	0	--	--	--
30...	--	--	--	--	10	4	--	--	0	--	--	--
JUNE												
13...	--	--	--	--	20	8	--	--	0	--	--	--
21...	--	--	--	--	20	4	--	--	0	--	--	--
27...	--	--	--	--	20	3	--	--	0	--	--	--
JULY												
03...	--	--	--	--	0	4	--	--	0	--	--	--
12...	--	--	--	--	0	2	--	--	0	--	--	--
20...	--	--	--	--	10	2	--	--	0	--	--	--
AUG.												
02...	--	--	--	--	0	3	--	--	0	--	--	--
10...	--	--	--	--	0	6	--	--	0	--	--	--
31...	--	--	--	--	0	4	--	--	0	--	--	--
SEP.												
13...	--	--	--	--	0	3	--	--	0	--	--	--
26...	--	--	--	--	40	3	--	--	0	--	--	--
OCT.												
03...	--	--	--	--	0	4	--	--	0	--	--	--
09...	--	--	--	--	0	3	--	--	0	--	--	--
16...	--	--	--	--	0	3	--	--	0	--	--	--
24...	--	--	--	--	0	5	--	--	0	--	--	--
NOV.												
01...	--	--	--	--	0	3	--	--	0	--	--	--
13...	--	--	--	--	0	3	--	--	0	--	--	--
DEC.												
11...	<6	40	<3	<6	10	2	<4	<9	0	<3.1	<.4	.07
23...	--	--	--	--	20	3	--	--	0	--	--	--
JAN., 1975												
08...	--	--	--	--	--	--	--	--	0	--	--	--
21...	--	--	--	--	20	2	--	--	0	--	--	--

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WATER QUALITY DATA

DATE	ALDRIN (UG/L) (39330)	LINDANE (UG/L) (39340)	CHLOR-DANE (UG/L) (39350)	DDD (UG/L) (39360)	DDE (UG/L) (39365)	DDT (UG/L) (39370)	DI-ELDRIN (UG/L) (39380)	ENDRIN (UG/L) (39390)	TOX-APHENE (UG/L) (39400)	HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR EPOXIDE (UG/L) (39420)	PCR (UG/L) (39516)
MAR., 1974												
14...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
02...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
OCT.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
11...	.00	.00	.0	.00	.00	.00	.00	.00	0	.00	.00	.0
23...	--	--	--	--	--	--	--	--	--	--	--	--
JAN., 1975												
06...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--

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WATER QUALITY DATA

DATE	MALATHION (UG/L) (39530)	PARATHION (UG/L) (39540)	DIAZINON (UG/L) (39570)	METHYL PARATHION (UG/L) (39600)	2,4-D (UG/L) (39730)	2,4,5-T (UG/L) (39740)	SILVEX (UG/L) (39760)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	DIS_ SOLVED AMMONIA (NH4) (MG/L) (71846)
MAR.. 1974												
14...	--	--	--	--	--	--	--	893	1.13	1.21	--	--
25...	--	--	--	--	--	--	--	869	.47	1.18	--	--
APR.												
04...	--	--	--	--	--	--	--	871	.89	1.18	--	--
19...	--	--	--	--	--	--	--	918	.67	1.25	--	--
27...	--	--	--	--	--	--	--	771	2.44	1.05	--	--
MAY												
03...	--	--	--	--	--	--	--	731	2.68	.99	--	--
17...	--	--	--	--	--	--	--	687	3.82	.93	--	--
24...	--	--	--	--	--	--	--	522	1.32	.71	--	--
30...	--	--	--	--	--	--	--	786	2.12	1.07	--	--
JUNE												
13...	--	--	--	--	--	--	--	820	1.97	1.12	--	--
21...	--	--	--	--	--	--	--	783	2.16	1.06	--	--
27...	--	--	--	--	--	--	--	829	1.88	1.13	--	--
JULY												
03...	--	--	--	--	--	--	--	795	2.47	1.08	--	--
12...	--	--	--	--	--	--	--	802	2.23	1.09	--	--
20...	--	--	--	--	--	--	--	937	3.09	1.27	--	--
AUG.												
02...	--	--	--	--	--	--	--	831	1.93	1.13	--	--
10...	--	--	--	--	--	--	--	807	1.74	1.10	--	--
31...	--	--	--	--	--	--	--	791	1.47	1.08	--	--
SEP.												
13...	--	--	--	--	--	--	--	841	1.07	1.14	--	--
26...	--	--	--	--	--	--	--	1020	1.60	1.39	--	--
OCT.												
03...	--	--	--	--	--	--	--	885	--	1.20	--	--
09...	--	--	--	--	--	--	--	841	--	1.14	--	--
16...	--	--	--	--	--	--	--	776	.34	1.06	--	--
24...	--	--	--	--	--	--	--	813	1.32	1.11	--	--
NOV.												
01...	--	--	--	--	--	--	--	802	.97	1.09	--	--
13...	--	--	--	--	--	--	--	825	.71	1.12	--	--
DEC.												
11...	.00	.00	.00	.00	.00	.00	.00	867	.94	1.18	.05	.05
23...	--	--	--	--	--	--	--	848	.82	1.15	.05	.01
JAN.. 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	843	1.21	1.15	.04	.01

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WATER QUALITY DATA

DATE	DIS- SOLVED NITRATE (NO3) (MG/L) (71851)	DIS- SOLVED NITRITE (NO2) (MG/L) (71856)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)
MAR., 1974								
14...	--	--	--	6580	--	--	--	--
25...	--	--	--	6580	--	--	--	--
APR.								
04...	--	--	.2	6580	--	--	--	--
19...	--	--	.0	6580	--	--	--	--
27...	--	--	--	6580	--	--	--	--
MAY								
03...	--	--	--	6580	--	--	--	--
17...	--	--	--	6580	--	--	--	--
24...	--	--	.0	6580	--	--	--	--
30...	--	--	.0	6580	--	--	--	--
JUNE								
13...	--	--	.0	6580	--	--	--	--
21...	--	--	.0	6580	--	--	--	--
27...	--	--	.0	6580	--	--	--	--
JULY								
03...	--	--	.0	6580	--	--	--	--
12...	--	--	.0	6580	--	--	--	--
20...	--	--	.0	6580	--	--	--	--
AUG.								
02...	--	--	.0	6580	--	--	--	--
10...	--	--	.0	6580	--	--	--	--
31...	--	--	1.3	6580	--	--	--	--
SEP.								
13...	--	--	.1	6580	--	--	--	--
26...	--	--	.1	6580	--	--	--	--
OCT.								
03...	--	--	.0	6580	--	--	--	--
09...	--	--	.5	6580	--	--	--	--
16...	--	--	.0	6580	--	--	--	--
24...	--	--	.0	6580	--	--	--	--
NOV.								
01...	--	--	.0	6580	--	--	--	--
13...	--	--	.0	6580	--	--	--	--
DEC.								
11...	1.2	.00	<.1	6580	<12	<.4	<2.5	<.4
23...	1.7	.00	.1	6580	--	--	--	--
JAN., 1975								
08...	--	--	--	6580	--	--	--	--
21...	1.4	.00	.0	6580	--	--	--	--

PROCESS DATE [illegible]/02/75

09306242 - CORRAL GULCH NE NGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	TYPE	SAMPLE NUMBER (00008)	TEMPERATURE (DEG C) (00010)	WEATHER (00041)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TURBIDITY (JTU) (00070)	COLOR (PLATINUM-COBALT UNITS) (00080)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	DISSOLVED OXYGEN (MG/L) (00300)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	PH (UNITS) (00400)
FEB., 1975												
12...	1430	2	--	8.0	--	--	2	3	1300	10.6	--	8.2
27...	1400	2	--	9.0	--	.60	3	5	1220	7.6	--	7.6
MAR.												
12...	1100	2	752700	8.0	--	.34	1000	8	1200	9.0	94	7.8
26...	1415	2	--	--	--	--	--	--	--	--	--	--
APR.												
09...	1045	2	--	--	73	--	--	--	--	5.4	--	--
09...	1100	2	--	7.0	--	1.1	740	5	1725	5.4	--	8.3
23...	1100	2	--	13.0	1	1.3	50	0	1550	7.3	--	8.2
MAY												
14...	1245	2	--	14.0	0	.46	1	5	1300	8.0	--	7.1
28...	1430	2	--	11.0	10	3.1	120	6	1550	8.1	--	8.0

RBOSP PROGRESS REPORT

PROCESS DATE 07/02/75

09306242 - CORRAL GULCH N [illegible] ANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	ALKALINITY AS CACO3 (MG/L) (00410)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILTRABLE RESIDUE (MG/L) (00530)	OIL AND GREASE (MG/L) (00550)	DISSOLVED AMMONIA NITROGEN (N) (MG/L) (00608)	DISSOLVED NITRITE (N) (MG/L) (00613)	DISSOLVED NITRATE (N) (MG/L) (00618)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)
FEB., 1975												
12...	5.1	415	506	0	--	--	9	.02	.00	.28	.25	.28
27...	20	415	506	0	--	--	10	.05	.00	.25	.22	.25
MAR.												
12...	13	417	508	0	880	2	4	.22	.02	.26	.67	.28
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	7.2	739	901	0	--	--	2	.27	.00	.28	2.4	.28
23...	7.4	603	735	0	--	--	3	.12	.03	.33	1.1	.36
MAY												
14...	65	421	513	0	--	--	0	.02	.00	.32	.14	.32
28...	13	668	815	0	--	--	2	.17	.01	.67	2.2	.68

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09306242 - CORRAL GULCH NE ANGELY, CO.

WATER QUALITY DATA

DATE	PHOS-PHATE (PO4) (MG/L) (00650)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L) (00660)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) (00671)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)	DIS-SOL-VED SUL-FIDE (S) (MG/L) (00746)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)
FEB., 1975												
12...	--	.09	.03	.03	--	.00	.1	510	92	86	71	120
27...	--	.12	.03	.04	--	.00	.1	510	93	88	70	110
MAR.												
12...	--	.28	.37	.09	9.8	.00	.0	520	98	90	70	110
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	.06	.60	.02	--	.00	.3	360	0	60	52	300
23...	1.8	.12	.58	.04	--	.01	.0	380	0	55	59	240
MAY												
14...	.15	.15	.05	.05	--	.01	.2	480	58	88	63	120
28...	1.3	.12	.41	.04	--	.02	.2	390	0	68	53	250

RBOSP PROGRESS REPORT

WATER QUALITY DATA

DATE	SODIUM AD-SORP-TION RATIO (00931)	PERCENT SODIUM (00932)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYL-LIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)
FEB.. 1975												
12...	2.3	34	2.1	10	320	.3	20	1	100	--	--	110
27...	2.1	32	2.1	11	300	.5	20	2	<100	--	--	130
MAR.												
12...	2.1	32	1.4	8.9	290	.4	13	6	50	<2	<5	100
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	6.8	64	2.3	11	240	10	19	7	<100	--	--	320
23...	5.4	58	2.0	16	280	4.3	19	2	0	--	--	550
MAY												
14...	2.4	35	1.8	11	290	.4	21	5	0	--	--	160
28...	5.5	58	2.2	15	200	2.8	20	9	100	--	--	670

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PROCESS DATE 02/75

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WATER QUALITY DATA

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)
FEB.. 1975												
12...	1	0	--	13	30	5	40	--	--	--	--	--
27...	0	0	--	4	10	5	20	--	--	--	--	--
MAR.												
12...	<60	<5	<5	2	120	<6	43	30	<4	0	1600	3.0
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
09...	0	0	--	3	30	2	0	--	--	--	--	--
23...	1	0	--	6	10	8	70	--	--	--	--	--
MAY												
14...	1	0	--	1	30	1	20	--	--	--	--	--
28...	0	0	--	1	30	1	6	--	--	--	--	--

09306242 - CORRAL GULCH NE NGELY, CO.

PROCESS DATE IS [illegible]02/75
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WATER QUALITY DATA

DATE	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS-PENDED GROSS BETA AS CS-137 (PC/L) (03516)
FEB., 1975												
12...	20	--	--	--	--	30	2	--	--	0	--	--
27...	7	--	--	--	--	20	2	--	--	0	--	--
MAR.												
12...	0	<5	20	<2	<6	14	2	<4	<9	3	<2.9	<.4
26...	--	--	--	--	--	--	--	--	--	2	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	2	--	--
09...	40	--	--	--	--	30	2	--	--	--	--	--
23...	10	--	--	--	--	20	1	--	--	0	--	--
MAY												
14...	6	--	--	--	--	10	2	--	--	0	--	--
28...	10	--	--	--	--	20	2	--	--	1	--	--

RBOSP PROGRESS REPORT

WATER QUALITY DATA

DATE	FECAL COLI-FORM (COL. PER 100 ML) (31616)	ALDRIN (UG/L) (39330)	LINDANE (UG/L) (39340)	CHLOR-DANE (UG/L) (39350)	DDD (UG/L) (39360)	DDE (UG/L) (39365)	DDT (UG/L) (39370)	DI-ELDRIN (UG/L) (39380)	ENDRIN (UG/L) (39390)	TOX-APHENE (UG/L) (39400)	HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR EPOXIDE (UG/L) (39420)
FEB., 1975												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
12...	0	.00	.00	.0	.00	.00	.00	.00	.00	0	.00	.00
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--

PROCESS DATE 07/02/75
DISTRICT CODE 08

09306242 - CORRAL GULCH RANGELY, CO.

WATER QUALITY DATA

DATE	PCB (UG/L) (39516)	MALATHION (UG/L) (39530)	PARATHION (UG/L) (39540)	DIAZINON (UG/L) (39570)	METHYL PARATHION (UG/L) (39600)	2,4-D (UG/L) (39730)	2,4,5-T (UG/L) (39740)	SILVEX (UG/L) (39760)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
FEB., 1975												
12...	--	--	--	--	--	--	--	--	881	--	1.20	.06
27...	--	--	--	--	--	--	--	--	853	1.38	1.16	.04
MAR.												
12...	.0	.00	.00	.00	.00	.00	.00	.00	838	.77	1.14	.11
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	1140	3.57	1.55	.58
23...	--	--	--	--	--	--	--	--	1040	3.73	1.41	.05
MAY												
14...	--	--	--	--	--	--	--	--	850	1.06	1.16	.06
28...	--	--	--	--	--	--	--	--	1020	8.54	1.39	.03

RBOSP PROGRESS REPORT

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09306242 - CORRAL GULCH RANGELY, CO.

WATER QUALITY DATA

DATE	DIS_ SOLVED AMMONIA (NH4) (MG/L) (71846)	DIS_ SOLVED NITRATE (NO3) (MG/L) (71851)	DIS_ SOLVED NITRITE (NO2) (MG/L) (71856)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)
FEB., 1975									
12...	.03	1.2	.00	.0	6580	--	--	--	--
27...	.06	1.1	.00	.1	6580	--	--	--	--
MAR.									
12...	.28	1.2	.07	.0	6580	<10	<.4	<2.4	<.4
26...	--	--	--	--	6580	--	--	--	--
APR.									
09...	--	--	--	--	6580	--	--	--	--
09...	.35	1.2	.00	.3	6580	--	--	--	--
23...	.15	1.5	.10	.0	6580	--	--	--	--
MAY									
14...	.03	1.4	.00	.0	6580	--	--	--	--
28...	.22	3.0	.03	.0	6580	--	--	--	--

WATER QUALITY DATA

DATE	TIME	SAMPLE NUMBER (00008)	TEMPER-ATURE (DEG C) (00010)	WEATHER (00041)	DIS-CHARGE (CFS) (00060)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	TUR-BID-ITY (JTU) (00070)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	DIS-SOLVED OXYGEN (MG/L) (00300)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	PH (UNITS) (00400)
MAY , 1974												
03...	1020	--	12.0	--	3.0	--	--	--	3600	7.2	--	8.4
14...	1330	--	21.5	--	--	2.8	--	--	3640	6.9	--	8.6
30...	1345	--	26.0	--	--	2.3	--	--	3600	10.3	--	8.8
JUNE												
21...	1030	--	17.0	--	--	2.0	--	--	3724	11.2	--	8.6
27...	1130	--	21.5	--	--	2.0	--	--	3620	9.8	--	8.8
JULY												
03...	1000	--	17.0	--	--	2.0	--	--	3680	8.4	--	8.7
12...	0915	--	12.0	--	--	3.3	--	--	3680	11.2	--	8.5
17...	1245	--	21.5	--	--	2.9	--	--	2410	8.1	--	8.0
AUG.												
15...	1130	--	19.0	--	--	1.7	--	--	3330	9.4	--	8.2
SEP.												
23...	1430	--	21.5	--	--	1.7	--	--	3130	8.6	--	8.7
OCT.												
25...	1300	--	12.0	--	--	1.5	--	--	3110	--	--	8.6
DEC.												
11...	1530	751900	.5	--	--	2.3	60	5	3500	11.9	30	8.5
12...	1530	751900	--	--	--	--	--	--	--	--	--	--
23...	1130	--	1.5	--	--	1.9	70	10	4000	11.5	--	8.6
JAN., 1975												
08...	1300	--	3.0	--	--	--	4	3	4000	10.6	--	8.3
21...	1130	--	1.0	--	--	--	300	5	3800	11.4	--	8.3
FEB.												
12...	1030	--	3.0	--	--	2.0	200	8	3000	10.8	--	8.4
27...	--	--	--	--	--	--	--	--	--	8.3	--	--
27...	1100	--	1.0	--	--	2.2	300	20	3450	--	--	8.4
MAR.												
12...	1400	752700	9.0	--	--	2.9	3	3	3500	8.5	7	8.4
26...	1030	--	3.5	--	--	2.2	85	10	3600	10.6	--	8.7
APR.												
09...	1200	--	6.0	--	--	1.2	3	3	3250	10.4	--	8.8
09...	1300	--	9.0	--	--	3.3	400	2	3400	9.1	--	8.7
23...	1000	--	9.0	1	--	1.9	56	4	3500	9.6	--	8.8
MAY												
15...	1100	--	17.0	1	--	1.7	16	3	3000	7.6	--	8.7

09306255 - YELLOW C NR WH IVER, CO

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	ALKA-LINITY AS CACO3 (MG/L) (00410)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	OIL AND GREASE (MG/L) (00550)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) (00608)	DIS-SOLVED NITRITE (N) (MG/L) (00613)	DIS-SOLVED NITRATE (N) (MG/L) (00618)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)
MAY • 1974												
03...	10	1310	1300	144	--	--	--	--	--	--	--	.42
14...	6.6	1350	1470	88	--	--	--	--	--	--	--	.04
30...	4.2	1370	1460.	104	--	--	--	--	--	--	--	.07
JUNE												
21...	7.1	1450	1380	191	--	--	--	--	--	--	--	.10
27...	--	--	--	--	--	--	--	--	--	--	--	.14
JULY												
03...	5.6	1450	1620	71	--	--	--	--	--	--	--	.13
12...	9.3	1510	1700	67	--	--	--	--	--	--	--	.33
17...	17	894	1090	0	--	--	--	--	--	--	--	1.5
AUG.												
15...	16	1310	1300	145	--	--	--	--	--	--	--	.91
SEP.												
23...	4.7	1210	843	313	--	--	--	--	--	--	--	.89
OCT.												
25...	5.7	1170	1210	106	--	--	--	--	--	--	--	1.3
DEC.												
11...	9.4	1520	1760	46	3500	84	0	.34	--	--	.82	2.3
12...	--	--	--	--	--	--	--	--	--	--	--	--
23...	7.1	1440	1760	0	--	--	2	.24	.02	2.2	.74	2.2
JAN., 1975												
08...	12	1260	1530	0	--	--	17	.24	.02	1.8	.75	1.8
21...	13	1280	1350	105	--	--	6	.26	.02	2.1	1.0	2.1
FEB.												
12...	10	1340	1630	0	--	--	8	.23	.04	2.7	1.2	2.7
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	11	1360	1450	103	--	--	8	.40	.01	1.8	.94	1.8
MAR.												
12...	10	1330	1620	0	2500	--	3	.00	.00	2.1	.17	2.1
26...	5.2	1330	1210	203	--	--	3	.17	.01	1.5	.71	1.5
APR.												
09...	4.3	1380	1480	97	--	--	--	.19	.01	2.2	--	2.2
09...	6.2	1580	1930	0	--	--	2	.23	.01	1.8	2.6	1.8
23...	3.8	1220	1490	1	--	--	2	.00	.01	.99	.60	1.0
MAY												
15...	5.4	1380	1510	87	--	--	1	.06	.01	.57	.30	.58

04306255 - YELLOW C NR WH IVER, CO

WATER QUALITY DATA

DATE	PHOS- PHATE (PO4) (MG/L) (00650)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L) (00660)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L) (00666)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) (00671)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)	DIS- SOL- VED SUL- FIDE (S) (MG/L) (00746)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)
MAY , 1974												
03...	--	.09	--	--	.03	--	--	--	670	0	38	140
14...	--	.06	--	--	.02	--	--	--	610	0	15	140
30...	--	.09	--	--	.03	--	--	--	590	0	22	130
JUNE												
21...	--	5.5	--	--	1.8	--	--	--	530	0	31	110
27...	--	.03	--	--	.01	--	--	--	510	--	24	110
JULY												
03...	--	.00	--	--	.00	--	--	--	560	0	26	120
12...	--	.06	--	--	.02	--	--	--	520	0	27	110
17...	--	.15	--	--	.05	--	--	--	530	0	130	50
AUG.												
15...	--	.03	--	--	.01	--	--	--	450	0	23	96
SEP.												
23...	--	.03	--	--	.01	--	--	--	420	0	17	92
OCT.												
25...	--	.06	--	--	.02	--	--	--	540	0	34	110
DEC.												
11...	--	.21	.12	--	.07	7.7	.00	.0	520	0	41	100
12...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	.25	.14	--	.08	--	.00	.5	560	0	43	110
JAN., 1975												
08...	--	.21	.10	--	.07	--	.00	.1	560	0	42	110
21...	--	.28	.15	--	.09	--	.00	.2	490	0	30	100
FEB.												
12...	--	.31	.07	.91	.10	--	.00	.1	610	0	45	120
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	.31	.22	--	.10	--	.00	.0	640	0	40	130
MAR.												
12...	--	.15	.02	--	.05	4.7	.00	.0	550	0	37	110
26...	--	.37	.13	--	.12	--	.00	.1	650	0	45	130
APR.												
09...	--	.34	--	--	.11	--	--	.3	500	0	37	98
09...	--	.15	.79	--	.05	--	.00	.2	590	0	40	120
23...	.28	.12	.09	--	.04	--	.00	.1	550	0	7.0	130
MAY												
15...	.12	.06	.04	--	.02	--	.00	.1	570	0	31	120

PROCESS DATE 07/03/75
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09306255 - YELLOW C NE WHI VER, CO

WATER QUALITY DATA

DATE	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	PERCENT SODIUM (00932)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYL-LIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)
MAY , 1974												
03...	710	12	70	3.9	110	750	--	13	--	--	--	--
14...	750	13	73	3.9	120	740	2.4	9.1	2	--	--	--
30...	760	14	74	3.9	130	670	1.9	6.9	--	--	--	--
JUNE												
21...	790	15	76	4.2	130	520	2.6	8.7	7	300	--	--
27...	790	15	77	4.0	120	570	2.3	9.2	2	100	--	--
JULY												
03...	800	15	76	4.8	130	590	2.0	7.6	9	<100	--	--
12...	770	15	76	3.9	130	560	2.4	7.3	5	<100	--	--
17...	500	9.4	67	6.2	93	400	1.3	13	6	400	--	--
AUG.												
15...	740	15	78	6.0	130	490	1.7	9.8	4	100	--	--
SEP.												
23...	630	13	76	4.2	100	440	2.0	8.1	6	200	--	--
OCT.												
25...	610	11	71	4.7	100	510	1.9	9.1	--	--	--	--
DEC.												
11...	800	15	77	3.7	140	560	2.3	16	5	160	<4	<20
12...	--	--	--	--	--	--	--	--	--	--	--	--
23...	770	14	75	3.6	120	560	2.3	17	4	<100	--	--
JAN., 1975												
08...	700	13	73	3.5	110	570	2.0	16	3	200	--	--
21...	680	13	75	3.5	110	560	2.1	15	4	0	--	--
FEB.												
12...	730	13	72	4.3	120	540	2.0	15	2	<100	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	710	12	71	4.2	110	560	2.2	15	0	400	--	--
MAR.												
12...	710	13	74	4.6	130	490	2.0	20	5	200	<4	<15
26...	700	12	70	3.5	110	640	1.9	14	3	100	--	--
APR.												
09...	680	13	75	3.8	130	470	1.2	14	1	<100	--	--
09...	840	15	75	4.4	130	630	1.6	14	5	300	--	--
23...	710	13	73	7.4	120	600	2.1	11	6	0	--	--
MAY												
15...	740	13	74	3.9	120	570	2.1	7.1	5	300	--	--

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09306255 - YELLOW C NR W RIVER, CO

WATER QUALITY DATA

DATE	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)
MAY , 1974												
03...	--	--	--	--	--	50	--	10	--	--	--	--
14...	--	--	--	--	--	20	--	30	--	--	--	--
30...	--	--	--	--	--	20	--	0	--	--	--	--
JUNE												
21...	730	1	--	--	9	50	13	0	--	--	--	--
27...	410	1	--	--	2	40	3	0	--	--	--	--
JULY												
03...	750	1	--	--	5	40	4	0	--	--	--	--
12...	720	1	--	--	2	400	5	30	--	--	--	--
17...	500	1	--	--	3	40	3	250	--	--	--	--
AUG.												
15...	660	<1	--	--	3	20	2	0	--	--	--	--
SEP.												
23...	550	<1	--	--	6	50	1	0	--	--	--	--
OCT.												
25...	--	--	--	--	--	40	--	30	--	--	--	--
DEC.												
11...	230	<60	<20	<20	<4	20	<20	17	16	<15	<2	3600
12...	--	--	--	--	--	--	--	--	--	--	--	--
23...	700	2	0	--	2	20	3	20	--	--	--	--
JAN., 1975												
08...	590	0	0	--	0	10	3	30	--	--	--	--
21...	630	0	10	--	2	50	5	10	--	--	--	--
FEB.												
12...	880	1	0	--	6	170	3	40	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	640	0	0	--	1	10	2	50	--	--	--	--
MAR.												
12...	560	<170	<15	<15	5	65	<16	14	30	<10	<2	3500
26...	630	0	0	--	0	20	0	20	--	--	--	--
APR.												
09...	680	0	0	--	3	10	0	10	--	--	--	--
09...	700	0	0	--	1	10	0	10	--	--	--	--
23...	630	1	0	--	7	30	9	30	--	--	--	--
MAY												
15...	640	2	0	--	3	40	4	10	--	--	--	--

PROCESS DA 7/03/75

09306255 - YELLOW C NR WH RIVER. CO

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WATER QUALITY DATA

DATE	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L) (03515)
MAY , 1974												
03...	--	--	--	--	--	--	--	--	--	--	0	--
14...	--	--	--	--	--	--	--	0	--	--	0	--
30...	--	--	--	--	--	--	--	--	--	--	0	--
JUNE												
21...	--	10	--	--	--	--	180	2	--	--	0	--
27...	--	20	--	--	--	--	180	2	--	--	0	--
JULY												
03...	--	20	--	--	--	--	150	1	--	--	0	--
12...	--	10	--	--	--	--	150	1	--	--	0	--
17...	--	10	--	--	--	--	80	2	--	--	0	--
AUG.												
15...	--	0	--	--	--	--	120	3	--	--	0	--
SEP.												
23...	--	0	--	--	--	--	130	3	--	--	0	--
OCT.												
25...	--	--	--	--	--	--	--	--	--	--	0	--
DEC.												
11...	<12	<60	<20	90	<6	<20	170	3	<12	<30	0	9.0
12...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	140	--	--	--	--	160	1	--	--	0	--
JAN., 1975												
08...	--	20	--	--	--	--	140	0	--	--	0	--
21...	--	30	--	--	--	--	140	3	--	--	0	--
FEB.												
12...	--	20	--	--	--	--	150	3	--	--	0	--
27...	--	--	--	--	--	--	--	--	--	--	3	--
27...	--	7	--	--	--	--	120	1	--	--	--	--
MAR.												
12...	<8.0	6	<15	150	<5	<20	160	3	<10	<25	2	10
26...	--	0	--	--	--	--	120	2	--	--	2	--
APR.												
09...	--	6	--	--	--	--	120	3	--	--	--	--
09...	--	20	--	--	--	--	140	3	--	--	--	--
23...	--	0	--	--	--	--	130	1	--	--	0	--
MAY												
15...	--	6	--	--	--	--	170	1	--	--	0	--

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09306255 - YELLOW C NR W RIVER, CO

WATER QUALITY DATA

DATE	SUSPENDED GROSS BETA AS CS-137 (PC/L) (03516)	FECAL COLIFORM (COL. PER 100 ML) (31616)	ALDRIN (UG/L) (39330)	LINDANE (UG/L) (39340)	CHLORDANE (UG/L) (39350)	DDD (UG/L) (39360)	DDE (UG/L) (39365)	DDT (UG/L) (39370)	DI-ELDRIN (UG/L) (39380)	ENDRIN (UG/L) (39390)	TOXAPHENE (UG/L) (39400)	HEPTACHLOR (UG/L) (39410)
MAY , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
OCT.												
25...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
11...	3.8	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	.00	.00	.0	.00	.00	.00	.00	.00	0	.00
23...	--	--	--	--	--	--	--	--	--	--	--	--
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
12...	--	0	.00	.00	.0	.00	.00	.00	.00	.00	0	.00
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--

RBOSP PROGRESS REPORT

09306255 - YELLOW C NR W[illegible]E RIVER, CO

WATER QUALITY DATA

DATE	HEPTACHLOR EPOXIDE (UG/L) (39420)	PCB (UG/L) (39516)	MALATHION (UG/L) (39530)	PARATHION (UG/L) (39540)	DIAZINON (UG/L) (39570)	METHYL PARATHION (UG/L) (39600)	2,4-D (UG/L) (39730)	2,4,5-T (UG/L) (39740)	SILVEX (UG/L) (39760)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)
MAY , 1974												
03...	--	--	--	--	--	--	--	--	--	2550	20.7	3.47
14...	--	--	--	--	--	--	--	--	--	2590	19.8	3.52
30...	--	--	--	--	--	--	--	--	--	2550	16.2	3.47
JUNE												
21...	--	--	--	--	--	--	--	--	--	2480	13.8	3.37
27...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
03...	--	--	--	--	--	--	--	--	--	2550	13.9	3.47
12...	--	--	--	--	--	--	--	--	--	2520	22.5	3.43
17...	--	--	--	--	--	--	--	--	--	1740	14.0	2.37
AUG.												
15...	--	--	--	--	--	--	--	--	--	2290	10.6	3.11
SEP.												
23...	--	--	--	--	--	--	--	--	--	2030	9.48	2.76
OCT.												
25...	--	--	--	--	--	--	--	--	--	2090	8.46	2.84
DEC.												
11...	--	--	--	--	--	--	--	--	--	2590	16.5	3.52
12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	--	--	--
23...	--	--	--	--	--	--	--	--	--	2510	13.5	3.41
JAN., 1975												
08...	--	--	--	--	--	--	--	--	--	2320	--	3.16
21...	--	--	--	--	--	--	--	--	--	2280	--	3.10
FEB.												
12...	--	--	--	--	--	--	--	--	--	2390	13.1	3.25
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	2400	14.7	3.26
MAR.												
12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	2320	18.6	3.16
26...	--	--	--	--	--	--	--	--	--	2450	14.6	3.33
APR.												
04...	--	--	--	--	--	--	--	--	--	2270	7.66	3.09
09...	--	--	--	--	--	--	--	--	--	2740	25.0	3.73
23...	--	--	--	--	--	--	--	--	--	2330	12.0	3.17
MAY												
15...	--	--	--	--	--	--	--	--	--	2430	11.2	3.30

RBOSP PROGRESS REPORT

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09306255 - YELLOW C NR W RIVER, CO

WATER QUALITY DATA

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	DIS_ SOLVED AMMONIA (NH4) (MG/L) (71846)	DIS_ SOLVED NITRATE (NO3) (MG/L) (71851)	DIS_ SOLVED NITRITE (NO2) (MG/L) (71856)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)
MAY , 1974									
03...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	.0	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUNE									
21...	--	--	--	--	.0	--	--	--	--
27...	--	--	--	--	.0	--	--	--	--
JULY									
03...	--	--	--	--	.0	--	--	--	--
12...	--	--	--	--	.0	--	--	--	--
17...	--	--	--	--	.0	--	--	--	--
AUG.									
15...	--	--	--	--	.0	--	--	--	--
SEP.									
23...	--	--	--	--	.0	--	--	--	--
OCT.									
25...	--	--	--	--	--	--	--	--	--
DEC.									
11...	.17	.44	--	--	<.1	<30	3.6	8.0	3.0
12...	--	--	--	--	--	--	--	--	--
23...	.13	.31	9.7	.07	.1	--	--	--	--
JAN., 1975									
08...	.08	.31	7.9	.07	.9	--	--	--	--
21...	.15	.33	9.3	.07	.0	--	--	--	--
FEB.									
12...	.43	.30	12	.13	.0	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	.10	.52	7.9	.03	.0	--	--	--	--
MAR.									
12...	.06	.00	9.3	.00	.0	<36	--	8.8	--
26...	.12	.22	6.6	.03	.0	--	--	--	--
APR.									
09...	.30	.24	9.7	.03	.3	--	--	--	--
09...	.42	.30	7.9	.03	.0	--	--	--	--
23...	.01	.00	4.4	.03	.0	--	--	--	--
MAY									
15...	.01	.08	2.5	.03	.2	--	--	--	--

RBOSP PROGRESS REPORT

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. Washington ....
District ....

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RBOSP·PROGRESS·REPORT

STATION: ~~[illegible]~~ CORRAL GULCH nr CATHEDRAL BLUFFS YEAR: 74

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											0.12	
2											0.03	
3										0.05	0.07	
4										0.07		0.02
5												0.07
6												
7												0.12
8												
9										0.03	0.34	
10									START of	0.04		
11									RECORD	0.03		
12												
13												0.31
14									0.29			
15									0.38			0.13
16												0.02
17												0.22
18											0.02	
19										↑		
20										0.08		0.08
21										↓		
22										0.06	0.10	0.10
23										0.27	0.05	
24										0.03		
25												
26												
27									0.02	↑		
28										|	0.05	
29										0.47		0.10
30										↓		0.02
31										0.45		0.01
SUM									.69	1.58	0.78	1.20

4.25

STATION: CORRAL GULCH NR CATHEDRAL BLUFFS YEAR: 7[illegible]

RBOSP PROGRESS REPORT

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				.65								
2												
3												
4				NO								
5		0.32		↕								
6	0.01		.07	record								
7	0.10		.05									
8	0.10											
9	0.15	0.07	.11									
10	0.02	0.04	.50									
11	0.05		.20									
12												
13		0.01										
14		0.26	.10									
15												
16		0.06	.06									
17		0.12	.21									
18												
19												
20												
21	0.12											
22			.38									
23			.12									
24												
25			.11									
26			.17									
27	0.07		.07									
28	0.40											
29	0.01											
30	0.38											
31	0.02		.72									
um	1.43	0.88	2.87									

U.S. GOVERNMENT PRINTING OFFICE : [illegible]

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ....
District ....

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RBOSP PROGRESS REPORT

STATION: STAKE SPRINGS DRAW YEAR: 74

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												
3												
4												
5												0.04
6												
7												0.03
8												
9												
10												
11												0.01
12												
13												0.17
14												
15												0.05
16												
17												
18												
19											START	0.19
20											OF RECORD	
21											0.01	
22											0.02	
23											0.08	
24												
25												
26												
27												
28											0.05	
29												0.13
30												0.01
31												
um												0.63

STATION: STAKE SPRINGS DRAW YEAR: 75

RBOSP PROGRESS REPORT

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.01		0.56								
2												
3												
4												
5		0.08										
6			0.07									
7	0.10			0.20								
8	0.07											
9	0.08		0.17									
10			0.38									
11			0.16									
12												
13												
14		0.19	0.02									
15		0.02										
16		0.08	0.01									
17			0.16									
18												
19												
20												
21	0.09	0.08	0.04									
22			0.18									
23			0.01									
24												
25			0.02									
26			0.25									
27	0.01		0.13									
28	0.31											
29												
30	0.27											
31	0.02	0.46	0.50									
SUM	0.95	0.92	2.10									

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ....
District ....

RBOSP PROGRESS REPORT

STATION: YELLOW CREEK @ MOUTH YEAR: 74

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												
3												START OF RECORD
4												
5												
6												0.01
7												0.03
8												
9												
10												
11												
12												
13												0.18
14												
15												0.17
16												
17												
18												
19												0.23
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												0.13
30												0.02
31												
um												0.77

STATION: YELLOW CREEK @ MOUTH YEAR: 75

RBOSP PROGRESS REPORT

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.83		0.29								
2												
3		↓										
4												
5			0.06									
6			0.05									
7	0.12			0.15								
8	0.21											
9	0.05		T									
10			0.25									
11			0.22									
12												
13		0.65										
14												
15												
16												
17			0.06									
18												
19												
20												
21	0.03		0.09									
22			0.05									
23												
24		↓										
25			0.02									
26			0.01									
27												
28	↑											
29		X										
30		X										
31		X	0.29									
um			1.17									

ALLUVIAL AQUIFERS

Section 1.2.3

Wet Chemical Water Analyses, Alluvial Test Holes

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Core Hole Description Data

Job # 741-40-

Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc.

Location

X = Coordinates east in feet, 7200 foot Datum of the Colorado State Coordinate System

Y = Coordinates, north in feet, 7200 foot Datum of the Colorado State Coordinate System

Z = Elevation in feet above sea of the core hole at ground surface

Date Drill Compl.-

The date when drilling was completed on the Core Hole.

Conv. to Monitor-

Date the Core Hole was converted to a Monitor Hole.

Aquifer 1:

Depth in feet to the top and bottom of the upper aquifer from ground surface.

Aquifer 2:

Depth in feet to the top and bottom of the lower aquifer from ground surface.

2. Sample Description Data

Date-

Date water sample was collected.

Depth-

Depth for Method 1: Total depth sample was collected during drilling.

Depth for Method 2: See aquifer 1 or 2.

Depth for Method 3: The static water level of the hole when sampled.

Temp.-

Field temperature of sample (^{o}F)

Lab ID-

Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample

Aquif. Loc,

U	Sample from upper aquifer during drilling, pumping or monitoring
L	Sample from lower aquifer during pumping test or monitoring
C	Sample combination of upper and lower aquifer during drilling

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter

Gross Beta -- picocuries per liter

pH -- standard pH values

Conductance-- micromhos per centimeter

Negative values indicate less than minimum detectable limit indicated

0.0 value - constituent not tested for

**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter

0.0 means less than minimum detectable amount

99999.000 means major amount

***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID S-7

JOB#-741-40E OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5
DATE	33175	41575	42975	51475	52975
DEPTH	0.0	20.70	21.04	21.75	21.85
TEMP	47.3	47.1	49.1	47.8	49.3
LAB ID					
LAB NUM	9023	184	185	436	437
METHOD	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A
WET					
ALUMINUM	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.400	-0.100	0.200	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	480.000	490.000	455.000	460.000	410.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	77.000	90.000	84.000	80.000	120.000
CARBONATE	-0.100	-0.100	-0.100	-0.100	24.000
CHLORIDE	12.000	14.000	9.600	17.000	7.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	0.400	0.400	0.400	0.400
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	4.800	0.300	9.100	15.000
LEAD	0.020	0.100	0.070	0.500	0.200
MAGNESIUM	45.000	47.000	35.000	56.000	7.300
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	3.900	4.800	5.200	4.700	0.200
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.010
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.100	-0.010
SIL DIOXID	27.000	23.000	22.000	26.000	28.000
SODIUM	160.000	145.000	155.000	75.000	190.000
SULFATE	280.000	275.000	270.000	150.000	300.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.200	-0.100	0.200	0.300
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	375.000	420.000	355.000	430.000	330.000
PH	6.400	6.400	6.400	6.800	6.100
CONDUCTANC	990.000	1120.000	1050.000	1120.000	1065.000
DIS SOLIDS	840.000	840.000	810.000	640.000	890.000
MANGANESE	-0.050	-0.050	1.900	0.100	0.400
ALKALINITY	395.000	400.000	375.000	395.100	360.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.100	2.900	1.900	-0.010	-0.010
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.030	0.040	0.020	0.020	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	19.000	9.000	14.000	15.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID S-7

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5
STRONTIUM	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R[illegible] S -- CORE HOLE ID S-8

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5
DATE	32975	41575	42975	51475	52975
DEPTH	37.14	39.06	38.92	37.88	30.72
TEMP	46.2	47.8	57.2	50.5	49.6
LAB ID					
LAB NUM	9024	186	187	438	439
METHOD	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A
WET					
ALUMINUM	-0.100	0.0	0.0	0.0	0.0
AMMONIA	1.000	0.600	0.200	0.900	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	495.000	510.000	510.000	440.000	370.000
CADMIUM	-0.010	-0.010	-0.010	0.030	0.010
CALCIUM	64.000	90.000	60.000	85.000	85.000
CARBONATE	-0.100	-0.100	-0.100	15.000	36.000
CHLORIDE	8.300	14.000	11.000	14.000	14.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.010	-0.100
FLUORIDE	0.300	0.400	0.0	0.400	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	3.100	9.200	28.000
LEAD	0.040	0.070	0.200	0.200	0.300
MAGNESIUM	40.000	26.000	35.000	16.000	31.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	1.0[illegible]0	5.100	3.400	5.000	0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	33.000	25.000	27.000	29.000	27.000
SODIUM	160.000	160.000	175.000	190.000	140.000
SULFATE	215.000	205.000	145.000	220.000	220.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.100	0.400	0.300	0.600
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	325.000	330.000	290.000	280.000	340.000
PH	6.500	6.400	6.400	6.700	6.000
CONDUCTANC	860.000	1045.000	930.000	1000.000	980.000
DIS SOLIDS	760.000	770.000	760.000	800.000	760.000
MANGANESE	0.120	1.900	1.300	2.500	1.500
ALKALINITY	405.000	420.000	420.000	372.000	329.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.500	2.400	3.000	-0.010	0.300
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0[illegible]0	0.080	0.060	0.050	0.060
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	41.000	100.000	7.000	8.000

RBOSP PROGRESS REPORT

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WATER QUALITY ANALYSIS RE S -- CORE HOLE ID S-8

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5
STRONTIUM	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5
DATE	32975	41575	42975	51475	52975
DEPTH	0.0	48.38	47.41	46.05	44.41
TEMP	48.2	47.9	50.0	51.8	56.3
LAB ID					
LAB NUM	9025	235	236	440	441
METHOD	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A
WET					
ALUMINUM	-0.100	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.200	0.400	0.600	0.300
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	675.000	650.000	680.000	660.000	630.000
CADMIUM	-0.010	0.010	-0.010	0.020	0.030
CALCIUM	77.000	190.000	140.000	170.000	210.000
CARBONATE	-0.100	-0.100	-0.100	18.000	6.000
CHLORIDE	19.000	19.000	23.000	27.000	21.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	-0.010	-0.100	0.100	-0.100	-0.100
FLUORIDE	0.200	0.300	0.200	-0.100	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	6.300	6.300	4.300	5.000
LEAD	0.040	0.200	0.300	0.300	0.400
MAGNESIUM	115.000	67.000	90.000	35.000	3.700
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	1.600	0.300	4.000	12.000	13.000
PHOSPHATE	-0.100	0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	40.000	32.000	33.000	34.000	37.000
SODIUM	255.000	210.000	240.000	300.000	290.000
SULFATE	570.000	580.000	580.000	540.000	540.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.030	0.300	0.100	0.400	0.500
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	670.000	750.000	720.000	570.000	540.000
PH	6.400	6.400	6.400	6.800	6.100
CONDUCTANC	1880.000	1930.000	1875.000	1860.000	1940.000
DIS SOLIDS	1410.000	1420.000	1420.000	1460.000	1430.000
MANGANESE	0.330	1.000	1.200	1.700	3.500
ALKALINITY	555.000	530.000	560.000	555.000	525.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	3.700	4.200	27.000	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.040	0.030	0.050	0.080
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	63.000	32.000	32.000	32.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RES -- CORE HOLE ID S-11

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

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                                        WATER QUALITY ANALYSIS RES     -- CORE HOLE ID S-11                    P    17

    SAMPLES                 1         2         3         4         5

    STRONTIUM    0.0       0.0       0.0       0.0       0.0
    TANTALUM     0.0       0.0       0.0       0.0       0.0
    TERBIUM      0.0       0.0       0.0       0.0       0.0
    THALLIUM     0.0       0.0       0.0       0.0       0.0
    THORIUM      0.0       0.0       0.0       0.0       0.0
    THULIUM      0.0       0.0       0.0       0.0       0.0
    TIN          0.0       0.0       0.0       0.0       0.0
    TITANIUM     0.0       0.0       0.0       0.0       0.0
    TUNGSTEN     0.0       0.0       0.0       0.0       0.0
    URANIUM      0.0       0.0       0.0       0.0       0.0
    VANADIUM     0.0       0.0       0.0       0.0       0.0
    YTTERBIUM    0.0       0.0       0.0       0.0       0.0
    YTTRIUM      0.0       0.0       0.0       0.0       0.0
    ZINC         0.0       0.0       0.0       0.0       0.0
    ZIRCONIUM    0.0       0.0       0.0       0.0       0.0
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RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID S-12

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5
DATE	33175	41575	42975	51475	52975
DEPTH	0.0	32.28	32.25	31.98	34.50
TEMP	45.5	46.9	48.2	51.1	48.6
LAB ID					
LAB NUM	9026	237	238	442	443
METHOD	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A
WET					
ALUMINUM	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.500	0.200	0.200	0.200	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	700.000	710.000	620.000	550.000	620.000
CADMIUM	-0.010	-0.010	-0.010	0.010	0.010
CALCIUM	28.000	110.000	87.000	81.000	110.000
CARBONATE	-0.100	-0.100	-0.100	54.000	30.000
CHLORIDE	22.000	16.000	71.000	21.000	21.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	-0.010
FLUORIDE	0.300	0.400	0.300	0.400	0.400
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	8.000	8.000	22.000	8.800
LEAD	0.040	0.100	0.050	0.700	0.400
MAGNESIUM	120.000	96.000	98.000	95.000	874.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	2.500	2.900	2.300	4.200	2.500
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	37.000	35.000	32.000	33.000	34.000
SODIUM	265.000	230.000	230.000	210.000	210.000
SULFATE	450.000	480.000	450.000	420.000	410.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.040	0.200	0.030	0.300	0.0
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	550.000	670.000	620.000	590.000	620.000
PH	6.400	6.600	6.800	6.800	6.200
CONDUCTANC	1511.000	1700.000	1550.000	1650.000	1650.000
DIS SOLIDS	1270.000	1280.000	1210.000	1190.000	1200.000
MANGANESE	0.090	6.400	0.100	2.900	0.500
ALKALINITY	570.000	580.000	510.000	494.000	535.000
CYANIDE	-0.010	0.010	-0.010	-0.010	-0.010
BORON	0.400	1.200	4.700	0.060	10.000
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.040	0.070	0.010	0.100	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	64.000	54.000	13.000	60.000

WATER QUALITY ANALYSIS RES -- CORE HOLE ID S-12

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID S-12

SAMPLES	1	2	3	4	5
STRONTIUM	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

UPPER AND LOWER AQUIFER PUMP TEST

Section 1.2.6

Wet Chemical and Spectographic Analyses, Upper, Lower, and Combined Aquifer

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Core Hole Description Data

Job # 741-40-

Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc.

Location

X = Coordinates east in feet, 7200 foot

Datum of the Colorado State Coordinate System

Y = Coordinates, north in feet, 7200 foot

Datum of the Colorado State Coordinate System

Z = Elevation in feet above sea of the core hole at ground surface

Date Drill Compl.-

The date when drilling was completed on the Core Hole.

Conv. to Monitor-

Date the Core Hole was converted to a Monitor Hole.

Aquifer 1:

Depth in feet to the top and bottom of the upper aquifer from ground surface.

Aquifer 2:

Depth in feet to the top and bottom of the lower aquifer from ground surface.

2. Sample Description Data

Date-

Date water sample was collected.

Depth-

Depth for Method 1: Total depth sample was collected during drilling.

Depth for Method 2: See aquifer 1 or 2.

Depth for Method 3: The static water level of the hole when sampled.

Temp.-

Field temperature of sample (°F)

Lab ID-

Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample

Aquif. Loc,

U	Sample from upper aquifer during drilling, pumping or monitoring
L	Sample from lower aquifer during pumping test or monitoring
C	Sample combination of upper and lower aquifer during drilling

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter

Gross Beta -- picocuries per liter

pH -- standard pH values

Conductance-- micromhos per centimeter

Negative values indicate less than minimum detectable limit indicated

0.0 value - constituent not tested for

**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter

0.0 means less than minimum detectable amount

99999.000 means major amount

***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

WATER QUALITY ANALYSIS RES[illegible] -- CORE HOLE ID AM-2A PA[illegible] 1

JOB#-731[illegible] OWNER-AMOCO LOCATIONS: [illegible] 158182.71 Y- 214994.65 Z- 7252.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 420.00- 980.00FT AQUIFER 2: 1510.00-1610.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	91973	92373	92773	110473	110673	33175	42775	42775	51475	51475
DEPTH	896.00	1446.00	1983.00	0.0	0.0	615.97	404.29	632.27	399.51	630.97
TEMP	61.0	65.0	62.0	73.0	63.0	58.1	53.6	59.0	55.6	60.1
LAB ID										
LAB NUM	0	0	0	0	0	8879	181	180	429	428
METHOD	1	1	1	2	2	3	3	3	3	3
AQUIF.LOC.	U	U	C	L	U	L	U	L	U	L
WET										
ALUMINUM	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	0.0	0.300	-0.100	0.400	0.200
ARSENIC	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	518.000	1220.000	863.000	1980.000	512.000	455.000	645.000	415.000	415.000	380.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	29.000	21.000	24.000	28.000	74.000	20.000	83.000	36.000	28.000	18.000
CARBONATE	36.000	42.000	36.000	-0.100	24.000	36.000	-0.100	60.000	42.000	57.000
CHLORIDE	24.000	69.000	62.000	148.000	29.000	2.800	8.200	11.000	7.000	41.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	0.010
COPPER	0.0	0.0	0.0	0.0	0.0	-0.010	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.100	24.000	10.000	41.000	80.000	-0.050	0.600	0.800	1.100	0.800
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	-0.050	0.250	-0.050	0.800	4.100	1.500	8.600	1.600
LEAD	0.0	0.0	0.0	0.0	0.0	0.050	0.300	0.200	0.400	0.200
MAGNESIUM	85.000	39.000	64.000	23.000	33.000	58.000	38.000	46.000	51.000	53.000
MERCURY	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.100	0.200	0.100	2.400	1.300	-0.100	0.600	-0.100	0.100	-0.100
PHOSPHATE	0.0	0.0	0.0	-0.100	0.0	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	24.000	17.000	22.000	18.000	29.000	0.500	21.000	-0.100	20.000	2.700
SODIUM	77.000	463.000	277.000	1090.000	390.000	210.000	285.000	230.000	240.000	245.000
SULFATE	38.000	30.000	40.000	145.000	352.000	305.000	410.000	320.000	345.000	330.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.010	0.100	0.100	0.500	0.200
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	312.000	212.000	322.000	165.000	320.000	290.000	365.000	230.000	280.000	265.000
PH	8.400	8.400	8.400	7.900	7.900	7.300	7.100	7.100	7.000	7.400
CONDUCTANC	1320.000	2280.000	2960.000	2600.000	1610.000	1260.000	1550.000	1370.000	1350.000	1340.000
DIS SOLIDS	984.000	1586.000	1382.000	2750.000	1000.000	860.000	1160.000	910.000	950.000	935.000
MANGANESE	-0.050	-0.050	-0.050	0.090	-0.050	-0.050	0.080	-0.050	0.100	-0.050
ALKALINITY	31.000	36.000	31.000	0.100	19.000	405.000	530.000	344.900	374.000	357.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	0.200	2.200	2.500	0.300	0.600
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.020	0.020	0.010	-0.010	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	8.000	7.000	7.000	9.000

WATER QUALITY ANALYSIS RESU .-- CORE HOLE ID AM-2A

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.100	0.100	0.100	0.020	0.010	0.010	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.100	0.100	0.100	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.010	0.0	0.200	0.020	0.010	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.010	0.0	0.010	0.0	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0 0	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.200	0.100	0.050	0.100	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	20.000	20.000	20.000	20.000	5.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.100	0.100	0.100	0.100	0.500	0.500	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-731-52 OWNER-AMOCO LOCATIONS: X 152310.78 Y- 218712.19 Z- 6931.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 270.00- 400.00FT AQUIFER 2: 750.00- 920.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	100473	100773	101073	110973	111273	32975	42575	42875	51775	51775
DEPTH	321.00	807.00	1338.00	0.0	0.0	290.87	304.08	45.56	304.85	39.60
TEMP	55.0	65.0	67.0	74.0	0.0	55.4	58.1	46.4	57.2	50.0
LAB ID										
LAB NUM	0	0	0	0	0	8880	182	183	430	431
METHOD	1	1	1	2	2	3	3	3	3	3
AQUIF.LOC.	U	C	C	L	U	L	L	U	L	U
WET										
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.600	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	0.100	-0.100	0.200	0.200	0.400
ARSENIC	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	378.000	1890.000	3130.000	2630.000	403.000	295.000	310.000	260.000	260.000	170.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	34.000	13.000	11.000	7.000	83.000	20.000	16.000	13.000	15.000	10.000
CARBONATE	18.000	129.000	270.000	78.000	31.000	24.000	24.000	18.000	33.000	36.000
CHLORIDE	30.000	125.000	157.000	205.000	35.000	1.400	14.000	16.000	14.000	10.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	0.0	0.090	0.100	0.100	-0.100	-0.100
FLUORIDE	1.000	50.000	60.000	1.000	0.900	1.500	1.000	0.800	1.200	0.600
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.170	0.220	5.700	-0.050	-0.050	1.000	1.600	7.200	1.300	12.000
LEAD	0.0	0.0	0.0	0.0	0.0	0.280	0.500	0.500	0.200	1.200
MAGNESIUM	52.000	15.000	15.000	8.000	48.000	42.000	45.000	40.000	41.000	40.000
MERCURY	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.100	0.700	0.900	3.200	1.000	0.100	0.500	0.600	-0.100	1.100
PHOSPHATE	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	25.000	12.000	15.000	11.000	28.000	-0.100	-0.100	-0.100	0.800	0.800
SODIUM	190.000	1990.000	1775.000	1110.000	40.000	155.000	165.000	160.000	175.000	165.000
SULFATE	285.000	260.000	108.000	10.000	22.000	270.000	270.000	275.000	285.000	305.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.020	0.200	1.000	0.200	0.500
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	300.000	96.000	88.000	50.000	232.000	225.000	225.000	195.000	205.000	190.000
PH	8.200	8.400	8.400	8.200	8.100	6.600	6.400	6.800	7.200	7.200
CONDUCTANC	1100.000	2840.000	4720.000	4740.000	0.0	900.000	965.000	975.000	1000.000	960.000
DIS SOLIDS	713.000	1550.000	3900.000	2830.000	1070.000	660.000	690.000	660.000	690.000	830.000
MANGANESE	-0.050	-0.050	-0.050	-0.050	-0.050	0.260	0.060	0.200	-0.050	0.200
ALKALINITY	15.500	112.000	234.000	6.200	25.000	260.000	275.000	230.000	237.000	170.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	-0.100	3.000	2.400	0.100	0.200
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.020	0.020	0.200	-0.100	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	9.000	10.000	18.000	16.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.010	0.500	0.500	0.050	0.100	0.010	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.300	0.100	0.100	0.500	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.001	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	8.000	0.030	0.020	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.0	0.010	0.010	0.010	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	0.100	0.100	0.100	0.100	1.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	10.000	15.000	10.000	20.000	-0.500	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SODIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0	0.0	0.0	

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.500	0.200	0.100	0.500	0.500	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.010	0.0	0.001	0.010	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.005	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID AM-4

JOB#- OWNER-AMOCO LOCATIONS: X- 162118.09 Y- 218189.45 Z- 7142.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 730.00- 950.00FT AQUIFER 2: 1400.00-1920.00FT

SAMPLES	1	2	3	4	5
DATE	90173	90473	91073	103173	110173
DEPTH	914.00	1348.00	1983.00	0.0	0.0
TEMP	60.0	69.0	81.0	80.0	65.0
LAB ID					
LAB NUM	0	0	0	0	0
METHOD	1	1	1	2	2
AQUIF.LOC.	U	C	C	L	U
WET					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BICARBONAT	436.000	1430.000	2190.000	2510.000	510.000
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	32.000	13.000	2.900	25.000	63.000
CARBONATE	18.000	146.000	159.000	-0.010	-0.010
CHLORIDE	33.000	66.000	13.000	155.000	88.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
FLUORIDE	0.100	30.000	40.000	46.000	0.900
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	0.140	0.200	0.100	-0.050	-0.050
LEAD	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	62.000	28.000	8.700	6.800	30.000
MERCURY	0.0	0.0	0.0	0.0	0.0
NITRATE	0.600	0.100	0.800	2.500	2.800
PHOSPHATE	0.0	0.0	0.0	0.100	0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SIL DIOXID	24.000	11.900	11.000	16.000	19.000
SODIUM	277.000	743.000	1110.000	1180.000	280.000
SULFATE	453.000	232.000	31.000	130.000	55.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	334.000	148.000	43.000	91.000	315.000
PH	7.900	8.400	8.500	7.900	7.800
CONDUCTANC	1350.000	2540.000	3800.000	3070.000	1300.000
DIS SOLIDS	1010.000	2120.000	2680.000	3200.000	815.000
MANGANESE	-0.050	-0.050	-0.050	-0.050	-0.050
ALKALINITY	15.000	119.000	130.000	-0.100	-0.100
CYANIDE	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.100	0.500	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.100	0.0	0.0
BORON	0.100	0.200	0.100	0.050	0.100
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.030	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.0	0.001	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.200	0.050	0.020	0.030
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.100	0.0	0.010	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.010	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.500	0.0	0.010	0.050
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	10.000	10.000	15.000	20.000
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5
STRONTIUM	0.500	0.500	0.0	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.100	0.0	0.010	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.010	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID CE 701

JOB#-741-40 OWNER-CAMERON LOCATIONS: X- 151858.91 Y- 230034.80 Z- 0.0
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	1	2	3	4	5	6	7
DATE	120971	121171	121371	110374	110374	32475	42975
DEPTH	400.00	700.00	900.00	0.0	0.0	134.81	132.02
TEMP	0.0	0.0	0.0	58.0	56.0	51.8	52.0
LAB ID							
LAB NUM	0	0	0	4568	4569	8153	9780
METHOD	1	1	1	2	2	3	3
AQUIF.LOC.	U	U	C	L	L	U	U
WET							
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.370	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	1.000	0.250
ARSENIC	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010
BICARBONAT	415.000	320.000	780.000	780.000	830.000	190.000	120.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.004	-0.010
CALCIUM	43.000	31.000	31.000	42.000	82.000	48.000	62.000
CARBONATE	-0.100	9.000	6.000	30.000	24.000	-0.100	6.000
CHLORIDE	24.000	17.000	31.000	15.000	16.000	27.000	21.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	0.0	0.010	0.030
FLUORIDE	0.200	1.600	7.000	4.100	4.200	0.400	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.250	0.270	0.330	0.280	0.410	0.310
LEAD	0.0	0.0	0.0	0.0	0.0	0.003	0.080
MAGNESIUM	58.000	51.000	47.000	48.000	25.000	27.000	12.000
MERCURY	0.0	0.0	0.0	0.0	0.0	0.045	-0.010
NITRATE	1.500	1.400	1.300	0.440	1.000	0.200	3.000
PHOSPHATE	0.0	0.0	0.0	0.0	0.0	0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010
SIL DIOXID	30.000	21.000	15.000	27.000	26.000	24.000	30.000
SODIUM	290.000	160.000	350.000	240.000	255.000	190.000	155.000
SULFATE	590.000	320.000	330.000	260.000	270.000	410.000	360.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.028	0.070
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	6.100	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	13.000	0.0
HARDNESS	346.000	287.000	272.000	300.000	310.000	230.000	205.000
PH	7.900	8.500	8.200	6.600	6.800	6.000	6.000
CONDUCTANC	1230.000	1015.000	1700.000	1950.000	1700.000	1100.000	1120.000
DIS SOLIDS	1170.000	790.000	1460.000	1090.000	1125.000	820.000	710.000
MANGANESE	-0.100	-0.100	-0.100	-0.050	-0.050	0.150	0.040
ALKALINITY	340.000	275.000	650.000	665.000	700.000	155.000	104.900
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	-0.010	0.200
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.001	0.050
NICKEL	0.0	0.0	0.0	0.0	0.0	-0.001	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	4.000

WATER QUALITY ANALYSIS RESUL — CORE HOLE ID CE 701

SAMPLES	1	2	3	4	5	6	7
SPECTROGRAPHIC							
ALUMINUM	0.100	0.150	0.100	0.0	0.0	0.100	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.300	0.200	0.300	0.0	0.0	0.100	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.006	0.002	0.005	0.0	0.0	0.001	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.150	0.050	0.020	0.0	0.0	0.100	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.005	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.020	0.020	0.010	0.0	0.0	0.100	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0
MANGANESE	0.080	0.050	0.020	0.0	0.0	0.010	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.020	0.020	0.040	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.300	0.200	0.300	0.0	0.0	2.000	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	15.000	10.000	8.000	0.0	0.0	10.000	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	99999.000	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7
STRONTIUM	0.200	0.200	0.300	0.0	0.0	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.050	0.040	0.040	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.020	0.040	0.020	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES[illegible]-- CORE HOLE ID CE 702

JOB#- OWNER-CAMERON LOCATIONS: X- 163314.86 Y- 228928.97 Z- 6667.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 350.00- 440.00FT AQUIFER 2: 1375.00-1540.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	81872	82372	82672	82772	82972	110574	32175	32175	42175	42175	51875	51875
DEPTH	415.00	910.00	1363.00	1461.00	1759.00	0.0	49.00	23.79	51.10	39.07	51.28	36.71
TEMP	47.0	53.0	55.0	67.0	75.0	54.0	63.0	61.7	61.7	61.7	62.1	60.8
LAB ID												
LAB NUM	0	0	0	0	0	4570	8306	8307	9782	9781	355	354
METHOD	1	1	1	1	1	2	3	3	3	3	3	3
AQUIF.LOC.	C	C	C	C	C	L	U	L	U	L	U	L
WET												
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.080	-0.010	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	0.0	0.420	0.420	1.800	1.500	1.800	1.600
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	430.000	350.000	530.000	1690.000	1850.000	3900.000	2415.000	2780.000	2590.000	2770.000	2390.000	1750.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	63.000	12.000	12.000	13.000	14.000	8.000	7.000	3.700	7.400	3.300	4.900	1.600
CARBONATE	48.000	27.000	15.000	100.000	40.000	18.000	190.000	340.000	140.000	300.000	255.000	690.000
CHLORIDE	27.000	17.000	23.000	53.000	160.000	10.000	52.000	49.000	65.000	61.000	59.000	67.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	0.070	0.040	-0.100	-0.100
FLUORIDE	0.200	2.900	4.900	16.000	25.000	30.000	25.000	40.000	26.000	24.000	25.000	30.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.200	0.300	0.300	-0.050	0.130	-0.050	-0.050	1.800	0.720	-0.050	1.800
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.020	0.300	0.900	0.100	0.600
MAGNESIUM	54.000	17.000	19.000	6.000	5.000	5.000	3.500	3.600	5.200	2.900	9.700	6.800
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	0.200	0.200	0.100	15.000	-0.010	0.740	0.200	0.100	1.700	0.200
PHOSPHATE	0.0	0.0	0.0	0.0	0.0	0.0	0.350	0.500	-0.100	0.300	-0.100	0.300
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	25.000	15.000	17.000	13.000	14.000	10.000	9.300	4.400	27.000	11.000	18.000	10.000
SODIUM	200.000	213.000	298.000	770.000	890.000	1350.000	1100.000	1380.000	1170.000	1360.000	1170.000	1250.000
SULFATE	340.000	200.000	255.000	105.000	170.000	-4.000	-4.000	-4.000	72.000	75.000	50.000	60.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.150	0.640	1.000	0.900	0.600	1.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	6.500	17.000	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.000	0.0	0.0	0.0	0.0
HARDNESS	380.000	98.000	108.000	56.000	54.000	40.000	32.000	24.000	40.000	20.000	52.000	32.000
PH	7.900	7.900	8.000	8.000	8.400	8.500	8.000	8.800	7.400	8.000	7.600	8.000
CONDUCTANC	1150.000	880.000	1200.000	2800.000	3000.000	6800.000	4080.000	4850.000	4000.000	4800.000	3920.000	4800.000
DIS SOLIDS	943.000	665.000	900.000	1960.000	2160.000	3980.000	2570.000	3180.000	2780.000	3200.000	2760.000	2980.000
MANGANESE	-0.050	-0.050	-0.050	-0.050	-0.050	0.400	-0.050	-0.050	0.020	-0.050	-0.050	-0.050
ALKALINITY	351.000	286.000	433.000	1380.000	1580.000	3215.000	2135.000	2850.000	2235.000	2515.000	2170.000	1995.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	0.0	3.100	3.700	3.300	0.560	4.300	3.000
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	0.060	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.040	0.050	0.030	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.000	14.000	13.000	14.000

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.500	0.050	0.500	0.100	0.200	0.0	0.010	0.500	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.100	0.300	0.100	0.0	0.100	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	0.0	10.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.000	0.000	0.000	0.001	0.0	0.005	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.400	0.200	0.020	0.0	0.010	0.500	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.010	0.010	0.001	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	0.0	10.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.020	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.005	0.005	0.002	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.200	0.0	5.000	5.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	10.000	10.000	11.000	11.000	0.0	5.000	2.000	0.0	0.0	0.0	0.0
SILVER	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	0.0	99999.000	99999.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID CF 702

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.0	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.005	0.010	0.010	0.020	0.0	0.001	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.001	0.010	0.001	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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                                   WATER QUALITY ANALYSIS RES      -- CORE HOLE ID CE 703

JOB#-                 OWNER-CAMERON                            LOCATIONS: X-       0.0   Y-       0.0   Z-       0.0
DATE DRILL COMPL-      0  DATE CONV TO MONITOR-      0    AQUIFER 1:  680.00- 740.00FT  AQUIFER 2: 1250.00-1315.00FT


SAMPLES                  1          2          3

DATE                122271     122471     122671
DEPTH               100.00     714.00    1200.00
TEMP                   0.0        0.0        0.0
LAB ID
LAB NUM                  0          0          0
METHOD                   1          1          1
AQUIF.LOC.               U          U          C

WET

ALUMINUM          0.0        0.0        0.0
AMMONIA           0.0        0.0        0.0
ARSENIC           0.0        0.0        0.0
BICARBONAT     1300.000   1200.000   1500.000
CADMIUM           0.0        0.0        0.0
CALCIUM          46.000     65.000     16.000
CARBONATE       120.000     36.000    120.000
CHLORIDE         80.000     50.000     50.000
CHROMIUM          0.0        0.0        0.0
COPPER            0.0        0.0        0.0
FLUORIDE         40.000     30.000     45.000
HYDROXIDE         0.0        0.0        0.0
IRON              0.100     -0.050      0.100
LEAD              0.0        0.0        0.0
MAGNESIUM         6.000      2.000     14.000
MERCURY           0.0        0.0        0.0
NITRATE           5.000      1.500      1.000
PHOSPHATE         0.0        0.0        0.0
POTASSIUM         0.0        0.0        0.0
SELENIUM          0.0        0.0        0.0
SIL DIOXID       12.000     15.000     11.000
SODIUM          640.000    490.000    680.000
SULFATE         150.000    130.000     80.000
SULFIDE           0.0        0.0        0.0
ZINC              0.0        0.0        0.0
GROS ALPHA        0.0        0.0        0.0
GROSS BETA        0.0        0.0        0.0
HARDNESS        140.000    170.000    100.000
PH                8.400      8.400      8.300
CONDUCTANC     2830.000   2460.000   2850.000
DIS SOLIDS     2200.000   1740.000   2300.000
MANGANESE        -0.100     -0.100     -0.100
ALKALINITY     1300.000   1360.000   1500.000
CYANIDE           0.0        0.0        0.0
BORON             0.0        0.0        0.0
BARIUM            0.0        0.0        0.0
SILVER            0.0        0.0        0.0
NICKEL            0.0        0.0        0.0
LITHIUM           0.0        0.0        0.0
TOC               0.0        0.0        0.0
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RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE -- CORE HOLE ID CE 703

SAMPLES	1	2	3
SPECTROGRAPHIC			
ALUMINUM	0.060	0.020	0.080
ANTIMONY	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0
BORON	0.400	0.200	0.200
CADMIUM	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0
CHROMIUM	0.005	0.0	0.001
COBOLT	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0
COPPER	0.008	0.050	0.010
DYSPROSIUM	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0
GOLD	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0
IRON	0.150	0.060	0.150
LANTHANUM	0.0	0.0	0.0
LEAD	0.0	0.0	0.0
LITHIUM	0.200	0.050	0.200
LUTETIUM	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0
MANGANESE	0.030	0.020	0.020
MERCURY	0.0	0.0	0.0
MOLYBDENUM	0.050	0.020	0.020
NEODYMIUM	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0
POTASSIUM	0.500	0.400	0.300
PRASEODYMI	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0
SILICON	6.000	10.000	5.000
SILVER	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0

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SAMPLES            1          2          3

STRONTIUM       0.200      0.300      0.200
TANTALUM        0.0        0.0        0.0
TERBIUM         0.0        0.0        0.0
THALLIUM        0.0        0.0        0.0
THORIUM         0.0        0.0        0.0
THULIUM         0.0        0.0        0.0
TIN             0.0        0.0        0.0
TITANIUM        0.050      0.150      0.200
TUNGSTEN        0.0        0.0        0.0
URANIUM         0.0        0.0        0.0
VANADIUM        0.050      0.100      0.050
YTTERBIUM       0.0        0.0        0.0
YTTRIUM         0.0        0.0        0.0
ZINC            0.0        0.0        0.0
ZIRCONIUM       0.0        0.0        0.0
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                                WATER QUALITY ANALYSIS RES   -- CORE HOLE ID CE 704C

JOB#-                 OWNER-CAMERON                      LOCATIONS: X-      0.0  Y-      0.0  Z-      0.0
DATE DRILL COMPL-     0  DATE CONV TO MONITOR-      0    AQUIFER 1:     0.0 -    0.0 FT  AQUIFER 2:    0.0 -    0.0 FT


SAMPLES               1          2          3          4          5

DATE             122671     122771     122871     122971     123071
DEPTH            400.00     700.00    1200.00    1600.00    1900.00
TEMP                0.0        0.0        0.0        0.0        0.0
LAB ID
LAB NUM               0          0          0          0          0
METHOD                1          1          1          1          1
AQUIF.LOC.            U          U          U          C          C

WET

ALUMINUM           0.0        0.0        0.0        0.0        0.0
AMMONIA            0.0        0.0        0.0        0.0        0.0
ARSENIC            0.0        0.0        0.0        0.0        0.0
BICARBONAT     290.000    310.000    300.000   1800.000   1700.000
CADMIUM            0.0        0.0        0.0        0.0        0.0
CALCIUM         20.000     12.000     12.000     11.000      7.000
CARBONATE       54.000     36.000     42.000     48.000    110.000
CHLORIDE        28.000     27.000     27.000     34.000     41.000
CHROMIUM           0.0        0.0        0.0        0.0        0.0
COPPER             0.0        0.0        0.0        0.0        0.0
FLUORIDE         0.300      1.600      3.500     16.000     16.000
HYDROXIDE          0.0        0.0        0.0        0.0        0.0
IRON             0.130      0.060      0.060      0.080      0.080
LEAD               0.0        0.0        0.0        0.0        0.0
MAGNESIUM       23.000     15.000     10.000      2.000      3.000
MERCURY            0.0        0.0        0.0        0.0        0.0
NITRATE          1.300      1.100      1.000      0.900      0.600
PHOSPHATE          0.0        0.0        0.0        0.0        0.0
POTASSIUM          0.0        0.0        0.0        0.0        0.0
SELENIUM           0.0        0.0        0.0        0.0        0.0
SIL DIOXID      19.000     17.000     12.000     12.000     12.000
SODIUM         230.000    240.000    230.000    700.000    760.000
SULFATE        280.000    250.000    210.000     40.000     60.000
SULFIDE            0.0        0.0        0.0        0.0        0.0
ZINC               0.0        0.0        0.0        0.0        0.0
GROS ALPHA         0.0        0.0        0.0        0.0        0.0
GROSS BETA         0.0        0.0        0.0        0.0        0.0
HARDNESS       140.000     94.000     70.000     38.000     30.000
PH               8.900      8.400      8.500      8.500      8.300
CONDUCTANC    1132.000   1060.000    970.000   2750.000   2580.000
DIS SOLIDS     910.000    860.000    770.000   2400.000   2290.000
MANGANESE       -0.100     -0.100     -0.100     -0.100     -0.100
ALKALINITY     330.000    320.000    310.000   1900.000   1500.000
CYANIDE            0.0        0.0        0.0        0.0        0.0
BORON              0.0        0.0        0.0        0.0        0.0
BARIUM             0.0        0.0        0.0        0.0        0.0
SILVER             0.0        0.0        0.0        0.0        0.0
NICKEL             0.0        0.0        0.0        0.0        0.0
LITHIUM            0.0        0.0        0.0        0.0        0.0
TOC                0.0        0.0        0.0        0.0        0.0
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RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.150	0.100	0.100	0.150	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.300	0.200	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.001	0.000	0.000	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.050	0.010	0.010	0.002
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.150	0.100	0.100	0.100	0.100
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0
LITHIUM	0.200	0.200	0.200	0.200	0.200
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.020	0.040	0.050	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.005	0.001	0.005	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.700	0.100	0.200	0.400	0.300
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	10.000	8.000	6.000	8.000
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5
STRONTIUM	0.200	0.400	0.200	0.300	0.200
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.150	0.100	0.080	0.070	0.050
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.040	0.040	0.040	0.010	0.020
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R S -- CORE HOLE ID CE 705A

JOB#- OWNER-CAMERON LOCATIONS: X- 158619.60 Y- 223358.84 Z- 6745.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 220.00- 440.00FT AQUIFER 2: 960.00-1100.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	112471	120271	120671	22675	31975	32575	32675	33075	33175	42575
DEPTH	775.00	1075.00	1375.00	0.0	42.00	29.44	0.0	295.22	295.41	27.88
TEMP	54.0	55.0	57.0	57.4	55.4	56.3	58.6	53.6	57.2	50.0
LAB ID										
LAB NUM	0	0	0	8313	8308	8309	9733	8689	8690	9784
METHOD	1	1	1	2	2	2	2	2	2	3
AQUIF.LOC.	C	C	C	U	U	U	U	U	U	U
WET										
ALUMINUM	0.0	0.0	0.0	0.130	0.550	0.370	0.0	-0.100	-0.100	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	0.0	0.120	0.0	0.0	0.250
ARSENIC	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	410.000	790.000	950.000	570.000	560.000	585.000	420.000	580.000	600.000	340.000
CADMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	29.000	35.000	39.000	110.000	30.000	52.000	115.000	66.000	59.000	38.000
CARBONATE	-0.100	30.000	-0.100	-0.100	-0.100	-0.100	30.000	-0.100	-0.100	36.000
CHLORIDE	17.000	35.000	50.000	240.000	5.500	-1.000	8.600	2.800	-1.000	4.300
CHROMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.040	-0.010	-0.010	0.040
FLUORIDE	1.500	8.000	9.000	3.600	1.200	2.000	0.800	0.780	0.800	0.900
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.090	0.090	-0.050	-0.050	-0.050	0.050	0.190	-0.050	0.060	1.400
LEAD	0.0	0.0	0.0	-0.010	-0.010	0.010	0.030	0.030	0.040	0.100
MAGNESIUM	43.000	39.000	47.000	92.000	90.000	74.000	35.000	64.000	66.000	56.000
MERCURY	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	2.700	15.000	1.300	-0.010	-0.010	-0.010	0.500	-0.100	0.200	0.150
PHOSPHATE	0.0	0.0	0.0	0.430	0.220	0.120	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	-0.010	-0.100	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	27.000	24.000	24.000	30.000	28.000	28.000	43.000	44.000	45.000	9.400
SODIUM	170.000	350.000	380.000	230.000	220.000	160.000	175.000	200.000	210.000	150.000
SULFATE	260.000	190.000	260.000	290.000	325.000	250.000	335.000	320.000	300.000	270.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.150	-0.010	-0.010	0.050	-0.010	-0.010	0.130
GROS ALPHA	0.0	0.0	0.0	2.800	2.600	1.000	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	250.000	248.000	290.000	660.000	445.000	435.000	430.000	430.000	420.000	325.000
PH	7.400	8.300	7.900	6.100	6.400	6.000	6.600	6.300	7.700	6.400
CONDUCTANC	1200.000	1750.000	1910.000	1980.000	1330.000	1300.000	1360.000	1380.000	1270.000	1120.000
DIS SOLIDS	840.000	1370.000	1580.000	1270.000	970.000	850.000	950.000	980.000	975.000	730.000
MANGANESE	-0.050	-0.050	-0.050	0.110	0.060	0.070	-0.010	-0.050	-0.050	0.240
ALKALINITY	335.000	700.000	780.000	465.000	1170.000	480.000	370.000	475.000	490.000	310.000
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	-0.100	4.200	0.100	0.680	0.400	0.300	-0.100
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.030	0.070	0.050	0.060
NICKEL	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.020	0.030	0.040	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	4.000	0.0	0.0	4.000

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.080	0.070	0.080	0.100	0.100	0.500	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.400	0.0	0.100	0.500	0.500	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.008	0.009	0.010	0.010	0.010	0.005	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.080	0.060	0.030	0.100	0.500	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.020	0.010	0.010	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.008	0.050	0.061	0.0	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.400	0.500	5.000	2.000	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	15.000	10.000	12.000	5.000	5.000	5.000	0.0	0.0	0.0	0.0
SILVER	0.000	0.0	0.0	-0.001	0.0	0.001	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	5.000	99999.000	99999.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID CE 705A

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.500	0.400	0.500	0.100	0.500	0.100	0.0	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.008	0.005	0.020	0.001	0.010	0.010	0.0	0.010	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.050	0.050	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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                                    WATER QUALITY ANALYSIS RES       -- CORE HOLE ID CS 706                                  P     25

  JOB#-                  OWNER-CAMERON                              LOCATIONS: X-        0.0   Y-        0.0   Z-        0.0
  DATE DRILL COMPL-       0  DATE CONV TO MONITOR-        0         AQUIFER 1:  130.00- 840.00FT   AQUIFER 2: 1120.00-1320.00FT


  SAMPLES                1          2          3          4

  DATE              110571     111071     112071     113071
  DEPTH             400.00     600.00     920.00    1313.00
  TEMP                 0.0        0.0        0.0        0.0
  LAB ID
  LAB NUM                0          0          0          0
  METHOD                 1          1          1          1
  AQUIF.LOC.             U          U          U          C

  WET

  ALUMINUM          0.0        0.0        0.0        0.0
  AMMONIA           0.0        0.0        0.0        0.0
  ARSENIC           0.0        0.0        0.0        0.0
  BICARBONAT      420.000    440.000    440.000   1500.000
  CADMIUM           0.0        0.0        0.0        0.0
  CALCIUM          74.000     80.000     76.000     22.000
  CARBONATE        -0.100     -0.100     -0.100     42.000
  CHLORIDE         50.000     50.000     21.000     80.000
  CHROMIUM          0.0        0.0        0.0        0.0
  COPPER            0.0        0.0        0.0        0.0
  FLUORIDE          1.000      0.200      0.300     20.000
  HYDROXIDE         0.0        0.0        0.0        0.0
  IRON             -0.050     -0.050     -0.050     -0.050
  LEAD              0.0        0.0        0.0        0.0
  MAGNESIUM        50.000     50.000     44.000     23.000
  MERCURY           0.0        0.0        0.0        0.0
  NITRATE           1.300      1.200      3.500     11.500
  PHOSPHATE         0.0        0.0        0.0        0.0
  POTASSIUM         0.0        0.0        0.0        0.0
  SELENIUM          0.0        0.0        0.0        0.0
  SIL DIOXID       30.000     31.000     33.000     17.000
  SODIUM          135.000    140.000    140.000    640.000
  SULFATE         260.000    275.000    270.000    130.000
  SULFIDE           0.0        0.0        0.0        0.0
  ZINC              0.0        0.0        0.0        0.0
  GROS ALPHA        0.0        0.0        0.0        0.0
  GROSS BETA        0.0        0.0        0.0        0.0
  HARDNESS        390.000    405.000    370.000    148.000
  PH                7.600      7.400      7.900      8.100
  CONDUCTANC     1220.000   1230.000   1390.000   1410.000
  DIS SOLIDS      920.000    970.000    940.000   2250.000
  MANGANESE        -0.050     -0.050     -0.050     -0.050
  ALKALINITY      344.000    360.000    360.000   1300.000
  CYANIDE           0.0        0.0        0.0        0.0
  BORON             0.0        0.0        0.0        0.0
  BARIUM            0.0        0.0        0.0        0.0
  SILVER            0.0        0.0        0.0        0.0
  NICKEL            0.0        0.0        0.0        0.0
  LITHIUM           0.0        0.0        0.0        0.0
  TOC               0.0        0.0        0.0        0.0
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JOB#-              OWNER-CAMERON                      LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0
DATE DRILL COMPL-      0  DATE CONV TO MONITOR-     0  AQUIFER 1:  130.00- 840.00FT  AQUIFER 2: 1120.00-1320.00FT

SAMPLES              1          2          3          4

DATE            110571     111071     112071     113071
DEPTH           400.00     600.00     920.00    1313.00
TEMP               0.0        0.0        0.0        0.0
LAB ID
LAB NUM              0          0          0          0
METHOD               1          1          1          1
AQUIF.LOC.           U          U          U          C

WET

ALUMINUM         0.0        0.0        0.0        0.0
AMMONIA          0.0        0.0        0.0        0.0
ARSENIC          0.0        0.0        0.0        0.0
BICARBONAT     420.000    440.000    440.000   1500.000
CADMIUM          0.0        0.0        0.0        0.0
CALCIUM         74.000     80.000     76.000     22.000
CARBONATE       -0.100     -0.100     -0.100     42.000
CHLORIDE        50.000     50.000     21.000     80.000
CHROMIUM         0.0        0.0        0.0        0.0
COPPER           0.0        0.0        0.0        0.0
FLUORIDE         1.000      0.200      0.300     20.000
HYDROXIDE        0.0        0.0        0.0        0.0
IRON            -0.050     -0.050     -0.050     -0.050
LEAD             0.0        0.0        0.0        0.0
MAGNESIUM       50.000     50.000     44.000     23.000
MERCURY          0.0        0.0        0.0        0.0
NITRATE          1.300      1.200      3.500     11.500
PHOSPHATE        0.0        0.0        0.0        0.0
POTASSIUM        0.0        0.0        0.0        0.0
SELENIUM         0.0        0.0        0.0        0.0
SIL DIOXID      30.000     31.000     33.000     17.000
SODIUM         135.000    140.000    140.000    640.000
SULFATE        260.000    275.000    270.000    130.000
SULFIDE          0.0        0.0        0.0        0.0
ZINC             0.0        0.0        0.0        0.0
GROS ALPHA       0.0        0.0        0.0        0.0
GROSS BETA       0.0        0.0        0.0        0.0
HARDNESS       390.000    405.000    370.000    148.000
PH               7.600      7.400      7.900      8.100
CONDUCTANC    1220.000   1230.000   1390.000   1410.000
DIS SOLIDS     920.000    970.000    940.000   2250.000
MANGANESE       -0.050     -0.050     -0.050     -0.050
ALKALINITY     344.000    360.000    360.000   1300.000
CYANIDE          0.0        0.0        0.0        0.0
BORON            0.0        0.0        0.0        0.0
BARIUM           0.0        0.0        0.0        0.0
SILVER           0.0        0.0        0.0        0.0
NICKEL           0.0        0.0        0.0        0.0
LITHIUM          0.0        0.0        0.0        0.0
TOC              0.0        0.0        0.0        0.0
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SAMPLES	1	2	3	4
SPECTROGRAPHIC				
ALUMINUM	0.0	0.0	0.050	0.080
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.010	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.060	0.050
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.010	0.010
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.020	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.003	0.050
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.200	0.500
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	15.000	10.000
SILVER	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0

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SAMPLES	1	2	3	4
STRONTIUM	0.0	0.0	0.300	0.400
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.010	0.020
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.050	0.050
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

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                                WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID CE 707

JOB#-                OWNER-CAMERON                    LOCATIONS: X- 152519.20 Y- 226697.70 Z-    7192.00
DATE DRILL COMPL-      0  DATE CONV TO MONITOR-     0  AQUIFER 1:  200.00- 550.00FT  AQUIFER 2: 1040.00-1360.00FT

SAMPLES               1          2          3          4          5          6          7          8          9         10         11

DATE              80772      81072      81172      81272      81372      33175      33175      42675      42675      51575      51575
DEPTH            440.00     797.00    1101.00    1209.00    1311.00     267.14     549.77     263.33     571.90     564.81     262.84
TEMP               55.0       50.0       51.0       57.0       57.0       51.8       55.6       53.6       57.2       59.4       53.6
LAB ID
LAB NUM               0          0          0          0          0       8692       8691       9786       9785        356        357
METHOD                1          1          1          1          1          3          3          3          3          3          3
AQUIF.LOC.            U          U          C          C          C          U          L          U          L          L          U

WET

ALUMINUM            0.0        0.0        0.0        0.0        0.0     -0.100     -0.100        0.0        0.0        0.0        0.0
AMMONIA             0.0        0.0        0.0        0.0        0.0      0.200      0.500      0.120      0.370      0.600      0.300
ARSENIC             0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT      445.000    450.000    540.000   1040.000   1030.000    660.000    280.000    560.000    250.000    315.000    700.000
CADMIUM             0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM          80.000     86.000     73.000     37.000     27.000    150.000      7.400    155.000      9.000      5.700    185.000
CARBONATE        15.000     36.000     39.000     72.000    100.000     -0.100     42.000     -0.100     49.000     46.000     -0.100
CHLORIDE         27.000     20.000     27.000     46.000    140.000      9.700     -1.000     11.000      2.800      5.500     14.000
CHROMIUM            0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
COPPER              0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.100     -0.100
FLUORIDE          0.100      0.100      3.800     16.000     16.000      0.100      1.900      0.100      1.800      1.900      0.200
HYDROXIDE           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
IRON              0.400      0.300      0.200      0.300      1.000     -0.050     -0.050      1.400      0.530      1.200     -0.050
LEAD                0.0        0.0        0.0        0.0        0.0      0.160      0.070      0.140      0.160      0.200      0.060
MAGNESIUM        11.000     71.000     71.000     37.000     31.000     55.000     24.000     40.000     21.000     21.000      7.900
MERCURY             0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
NITRATE          -0.100      0.200      0.100      0.200      0.200     -0.100      0.200      4.300      0.300      0.300      0.400
PHOSPHATE           0.0        0.0        0.0        0.0        0.0     -0.100     -0.100     -0.100     -0.100      0.100      0.100
POTASSIUM           0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM            0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID       27.000     37.000     35.000     21.000     20.000     57.000      3.300     55.000      0.710      0.500     53.000
SODIUM          266.000    149.000    198.000    484.000    566.000    180.000    150.000    160.000    145.000    165.000    250.000
SULFATE         380.000    360.000    345.000    250.000    210.000    345.000    140.000    330.000    130.000    125.000    385.000
SULFIDE             0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ZINC                0.0        0.0        0.0        0.0        0.0     -0.010      0.010      0.050      2.200      0.100      0.020
GROS ALPHA          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GROSS BETA          0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
HARDNESS        246.000    508.000    475.000    245.000    195.000    610.000    115.000    550.000    110.000    100.000    495.000
PH                7.900      8.000      8.000      7.900      7.900      6.400      6.800      6.500      7.500      7.200      6.600
CONDUCTANC     1425.000   1150.000   1400.000   2400.000   2500.000   1320.000    760.000   1560.000    808.000    830.000   1440.000
DIS SOLIDS     1015.000   1010.000   1080.000   1470.000   1690.000   1120.000    505.000   1030.000    480.000    530.000   1420.000
MANGANESE        -0.050     -0.050     -0.050     -0.050     -0.050      0.150      0.100      0.070      0.080     -0.050     -0.050
ALKALINITY      364.000    368.000    441.000    850.000    842.000    540.000    264.000    460.000    244.000    298.000    575.000
CYANIDE             0.0        0.0        0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
BORON               0.0        0.0        0.0        0.0        0.0      0.400      0.300      1.700      4.000      0.800      1.000
BARIUM              0.0        0.0        0.0        0.0        0.0     -1.000     -1.000     -1.000     -1.000     -1.000     -1.000
SILVER              0.0        0.0        0.0        0.0        0.0      0.100      0.050     -0.010     -0.010     -0.010     -0.010
NICKEL              0.0        0.0        0.0        0.0        0.0      0.030      0.020      0.030      0.040      0.010      0.010
LITHIUM             0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
TOC                 0.0        0.0        0.0        0.0        0.0        0.0        0.0      5.000      3.000      8.000      8.000
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WATER QUALITY ANALYSIS RE — CORE HOLE ID CE 707

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.100	0.100	0.100	0.050	0.100	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.100	0.300	0.200	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.000	0.0	0.000	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.300	0.200	0.100	0.200	0.800	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.050	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.005	0.005	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	30.000	25.000	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.001	0.010	0.001	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.010	0.010	0.010	0.005	0.001	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID CE 708

JOB#- OWNER-CAMERON LOCATIONS: X- 152466.20 Y- 224462.00 Z- 6928.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 150.00- 300.00FT AQUIFER 2: 800.00- 880.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	72372	72672	72872	72972	73072	32375	32375	42275	42275	51875	51875
DEPTH	145.00	537.00	875.00	1023.00	1301.00	53.96	280.08	296.60	53.82	294.25	52.93
TEMP	58.0	57.0	57.0	63.0	65.0	51.8	54.5	57.2	54.2	56.3	53.6
LAB ID											
LAB NUM	0	0	0	0	0	8163	8164	9787	9788	358	359
METHOD	1	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	C	C	U	L	L	U	L	U
WET											
ALUMINUM	0.0	0.0	0.0	0.0	0.0	1.000	0.110	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	0.0	0.0	0.850	2.000	-0.100	0.200	0.300	0.200
ARSENIC	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	430.000	470.000	530.000	1050.000	1420.000	560.000	525.000	440.000	530.000	480.000	575.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	-0.001	0.006	-0.010	-0.010	-0.010	-0.010
CALCIUM	84.000	96.000	88.000	35.000	16.000	150.000	30.000	37.000	135.000	22.000	52.000
CARBONATE	12.000	15.000	-0.100	15.000	57.000	-0.100	-0.100	24.000	-0.100	29.000	-0.100
CHLORIDE	18.000	22.000	13.000	30.000	22.000	11.000	11.000	8.600	11.000	11.000	12.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	0.0	0.030	0.020	-0.010	-0.010	-0.100	-0.100
FLUORIDE	0.200	0.200	2.000	16.000	30.000	3.600	4.000	1.800	0.400	2.300	0.400
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.200	0.100	0.200	0.300	3.400	3.000	0.660	0.910	1.200	2.500
LEAD	0.0	0.0	0.0	0.0	0.0	0.003	0.004	0.100	0.110	0.060	0.600
MAGNESIUM	50.000	60.000	50.000	27.000	13.000	36.000	33.000	20.000	46.000	23.000	82.000
MERCURY	0.0	0.0	0.0	0.0	0.0	0.005	0.001	-0.010	-0.010	-0.010	-0.010
NITRATE	0.300	0.300	0.500	1.100	0.200	0.300	-0.100	0.300	0.500	1.400	-0.100
PHOSPHATE	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	33.000	34.000	30.000	20.000	12.000	36.000	11.000	13.000	4.700	13.000	43.000
SODIUM	160.000	140.000	175.000	430.000	580.000	200.000	210.000	180.000	130.000	225.000	210.000
SULFATE	350.000	345.000	345.000	200.000	70.000	410.000	190.000	170.000	310.000	160.000	360.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	-0.100	0.200	0.060	0.040	0.100	0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	1.200	1.500	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	19.000	0.0	0.0	0.0	0.0
HARDNESS	416.000	486.000	426.000	198.000	94.000	520.000	210.000	175.000	520.000	150.000	465.000
PH	8.100	8.000	7.700	7.900	8.100	6.400	6.000	6.600	6.400	6.800	6.800
CONDUCTANC	1150.000	1150.000	1180.000	1860.000	2400.000	1360.000	1050.000	1100.000	1400.000	1010.000	1300.000
DIS SOLIDS	940.000	990.000	1060.000	1520.000	1880.000	1120.000	750.000	670.000	900.000	720.000	1050.000
MANGANESE	-0.100	-0.050	-0.050	-0.050	-0.200	0.190	0.120	0.050	0.070	-0.050	-0.010
ALKALINITY	377.000	411.000	439.000	888.000	1260.000	460.000	430.000	380.000	435.000	419.000	470.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	1.900	0.470	0.900	0.400
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.001	-0.001	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.030	0.020	0.030	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.000	7.000	7.000	5.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.050	0.500	0.500	0.300	0.500	0.100	0.100	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0	0.001	0.010	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.050	0.050	0.050	0.100	0.100	0.500	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.001	0.001	0.001	0.010	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.800	0.100	0.050	0.200	0.200	1.000	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.030	0.010	0.005	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.010	0.010	0.010	0.001	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.020	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.001	0.005	0.005	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.100	0.100	1.000	5.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	25.000	30.000	25.000	20.000	25.000	5.000	2.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	10.000	5.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID CE 708

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.500	0.500	0.500	0.100	0.100	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.001	0.001	0.005	0.001	0.005	0.005	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.001	0.001	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID CE 709

JOB#- OWNER-CAMERON LOCATIONS: X- 157063.10 Y- 227185.70 Z- 6782.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 120.00- 510.00FT AQUIFER 2: 980.00-1260.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	90272	90672	91072	32975	32975	42275	42275	51875	51875
DEPTH	229.00	745.00	1259.00	136.65	53.25	296.60	53.82	52.93	298.25
TEMP	52.0	53.0	56.0	47.5	46.9	51.8	50.9	49.1	49.6
LAB ID									
LAB NUM	0	0	0	8693	8694	9789	9790	361	360
METHOD	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	L	U	L	U	U	L
WET									
ALUMINUM	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.0	-0.100	0.200	-0.100	-0.100	0.200	0.200
ARSENIC	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	580.000	500.000	500.000	-0.100	470.000	-0.100	450.000	520.000	30.000
CADMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	100.000	84.000	58.000	84.000	66.000	51.000	59.000	48.000	30.000
CARBONATE	-0.100	-0.100	-0.100	84.000	-0.100	30.000	-0.100	-0.100	17.000
CHLORIDE	23.000	15.000	17.000	18.000	-1.000	17.000	14.000	12.000	15.000
CHROMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.100	-0.100
FLUORIDE	0.100	1.600	1.600	0.140	0.160	0.400	0.300	0.200	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.005	0.050	0.050	0.890	0.220	0.550	1.600	3.000	0.600
LEAD	0.0	0.0	0.0	0.330	0.320	0.180	0.270	0.400	0.200
MAGNESIUM	65.000	54.000	58.000	2.100	74.000	3.200	81.000	73.000	21.000
MERCURY	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.600	0.500	0.200	-0.100	-0.100	0.300	0.550	-0.100	-0.100
PHOSPHATE	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	22.000	20.000	20.000	32.000	30.000	17.000	17.000	30.000	9.600
SODIUM	120.000	140.000	165.000	155.000	130.000	86.000	120.000	190.000	130.000
SULFATE	340.000	295.000	300.000	315.000	315.000	230.000	290.000	360.000	355.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.010	0.020	0.110	0.170	0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	520.000	432.000	384.000	220.000	470.000	140.000	480.000	420.000	160.000
PH	7.700	7.800	7.800	10.200	6.400	7.400	6.200	6.400	6.400
CONDUCTANC	1100.000	1200.000	1120.000	1010.000	1170.000	915.000	1180.000	1260.000	810.000
DIS SOLIDS	910.000	862.000	877.000	680.000	850.000	430.000	800.000	970.000	590.000
MANGANESE	-0.050	-0.050	-0.050	-0.050	-0.050	0.080	0.160	-0.050	-0.050
ALKALINITY	392.000	409.000	409.000	69.000	385.000	25.000	370.000	425.000	39.000
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.300	0.200	2.100	2.100	0.400	1.400
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	0.040	-0.010	0.050	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.030	0.030	0.030	0.020	0.010	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	8.000	7.000	7.000	9.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.200	0.200	0.100	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.020	0.010	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.100	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.300	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	15.000	15.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID CE 709

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.020	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE --- CORE HOLE ID GS-1

JCB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149639.50 Y- 227281.60 Z- 7252.60
DATE DRILL COMPL- 82474 DATE CONV TO MONITOR- 0 AQUIFER 1: 260.00- 450.00FT AQUIFER 2: 900.00-1230.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	81774	81774	81874	82474	33175	33175	42675	42675	51575	51575
DEPTH	383.00	442.00	475.00	1404.00	589.49	245.59	602.67	245.89	600.68	245.71
TEMP	55.0	58.0	54.0	60.0	57.6	51.8	59.0	53.6	60.8	54.5
LAB ID										
LAB NUM	2392	2396	2393	2395	8695	8696	9791	9792	362	363
METHOD	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	C	L	U	L	U	L	U
WET										
ALUMINUM	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	5.300	1.400	-0.100	3.000	0.0	0.0	0.250	0.550	0.400	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	500.000	415.000	475.000	715.000	400.000	445.000	340.000	440.000	380.000	490.000
CADMIUM	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	130.000	42.000	120.000	50.000	17.000	34.000	41.000	120.000	84.000	140.000
CARBONATE	-0.100	-0.100	-0.100	24.000	12.000	-0.100	24.000	-0.100	29.000	-0.100
CHLORIDE	22.000	36.000	36.000	1130.000	-1.000	8.300	7.100	2.800	10.000	14.000
CHROMIUM	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.100	-0.100
FLUORIDE	1.200	0.100	0.400	1.600	1.400	0.200	0.900	0.300	1.000	0.200
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.650	0.230	1.000	5.000	0.900	4.800
LEAD	0.0	0.0	0.0	0.0	0.050	0.060	0.140	-0.010	0.070	0.070
MAGNESIUM	57.000	99.000	76.000	96.000	46.000	54.000	34.000	38.000	15.000	46.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.800	0.300	0.400	0.100
PHOSPHATE	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	34.000	36.000	33.000	25.000	20.000	32.000	22.000	32.000	19.000	32.000
SODIUM	150.000	150.000	115.000	1050.000	150.000	160.000	145.000	110.000	150.000	140.000
SULFATE	390.000	380.000	360.000	535.000	165.000	225.000	160.000	285.000	180.000	350.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.010	-0.010	0.570	0.170	0.400	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	560.000	510.000	610.000	520.000	230.000	310.000	245.000	455.000	270.000	540.000
PH	7.200	7.000	7.000	6.800	6.200	6.400	6.700	6.400	6.800	7.000
CONDUCTANC	900.000	930.000	1070.000	4000.000	795.000	1110.000	980.000	1390.000	890.000	1210.000
DIS SOLIDS	1210.000	1460.000	1340.000	3440.000	610.000	730.000	600.000	810.000	670.000	970.000
MANGANESE	0.0	0.0	0.0	0.0	0.220	0.300	0.060	0.170	-0.050	-0.050
ALKALINITY	0.0	0.0	0.0	0.0	334.800	365.000	300.000	360.000	334.000	400.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.200	0.300	2.300	0.100	1.300	3.200
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.110	0.100	0.030	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.020	0.020	-0.010	0.010	0.010	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	2.000	5.000	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.500	0.100	0.500	0.100	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.050	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.100	0.050	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.030	0.050	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	30.000	25.000	30.000	20.000	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-1

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.0	0.100	0.050	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 254518.60 Y- 229396.90 Z- 6882.00
DATE DRILL COMPL- 80574 DATE CONV TO MONITOR- 0 AQUIFER 1: 180.00- 470.00FT AQUIFER 2: 920.00-1200.00FT

SAMPLES	1	2	3	4	5	6	7
DATE	80274	80374	80974	42975	42975	51875	51875
DEPTH	455.00	714.00	1424.00	261.65	112.22	251.47	110.91
TEMP	58.0	58.0	73.0	59.9	51.8	57.9	51.8
LAB ID							
LAB NUM	1908	2049	2048	9793	9795	364	365
METHOD	1	1	1	3	3	3	3
AQUIF.LOC.	U	U	C	L	U	L	U
WET							
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.000	0.900	0.900	-0.100	-0.100	0.100	0.200
ARSENIC	-0.010	0.100	0.030	-0.010	-0.010	-0.010	-0.010
BICARBONAT	550.000	451.000	1960.000	400.000	445.000	460.000	480.000
CADMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
CALCIUM	110.000	69.000	10.000	20.000	35.000	59.000	95.000
CARBONATE	24.000	34.000	134.000	48.000	54.000	63.000	43.000
CHLORIDE	45.000	50.000	160.000	2.800	8.600	14.000	14.000
CHROMIUM	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.100
FLUORIDE	0.200	0.500	35.000	4.800	0.400	3.000	0.400
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	1.100	2.100	3.500	2.000
LEAD	0.0	0.0	0.0	0.060	0.100	0.200	0.070
MAGNESIUM	55.000	69.000	8.100	51.000	77.000	25.000	40.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.200	-0.100	0.300	0.400	0.400	0.700	-0.100
PHOSPHATE	0.0	0.0	0.0	-0.100	-0.100	-0.010	-0.100
POTASSIUM	1.400	-1.000	-1.000	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	21.000	34.000	15.000	5.200	14.000	4.300	13.000
SODIUM	230.000	187.000	945.000	170.000	195.000	220.000	210.000
SULFATE	400.000	350.000	26.000	215.000	300.000	220.000	340.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.760	1.000	1.600	1.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	500.000	454.000	59.000	260.000	405.000	250.000	400.000
PH	7.000	6.900	7.400	6.600	6.400	6.800	7.400
CONDUCTANC	1250.000	1240.000	3400.000	1180.000	1290.000	1260.000	970.000
DIS SOLIDS	1005.000	954.000	2290.000	710.000	1150.000	840.000	990.000
MANGANESE	0.0	0.0	0.0	-0.050	0.060	-0.050	-0.050
ALKALINITY	0.0	0.0	0.0	369.000	409.000	432.000	425.000
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	3.300	0.120	-0.010	-0.010
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.020	0.030	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.010	0.020	-0.010	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	5.000	6.000	0.0	0.0

SAMPLES	1	2	3	4	5	6	7
SPECTROGRAPHIC							
ALUMINUM	0.100	0.500	0.100	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.010	0.050	0.010	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.050	0.010	0.001	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.100	0.010	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	10.000	0.0	0.0	0.0	0.0
MANGANESE	0.010	0.050	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.010	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.001	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.100	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	30.000	20.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID GS-2-3

SAMPLES	1	2	3	4	5	6	7
STRONTIUM	0.100	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.020	0.010	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 160240.80 Y- 228513.90 Z- 6728.00
DATE DRILL COMPL- 90174 DATE CONV TO MONITOR- 0 AQUIFER 1: 220.00- 650.00FT AQUIFER 2: 1050.00-1400.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	81774	82274	82874	90174	43075	32275	32275	33175	33175
DEPTH	202.00	618.00	1275.00	1663.00	75.61	82.13	74.77	82.73	74.90
TEMP	69.0	58.0	72.0	79.0	63.5	52.7	52.7	0.0	0.0
LAB ID									
LAB NUM	2397	2394	2502	2503	9797	8310	8311	8697	8698
METHOD	1	1	1	1	2	3	3	3	3
AQUIF.LOC.	U	U	C	C	U	L	U	L	U
WET									
ALUMINUM	0.0	0.0	-0.050	-0.050	0.0	0.080	0.590	-0.100	-0.100
AMMONIA	10.600	-0.100	1.400	1.100	0.290	0.700	1.800	0.300	0.200
ARSENIC	0.200	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	355.000	450.000	1310.000	2090.000	460.000	2365.000	510.000	480.000	605.000
CADMIUM	0.0	0.0	0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010
CALCIUM	14.000	34.000	19.000	26.000	16.000	3.300	16.000	26.000	28.000
CARBONATE	-0.100	-0.100	33.000	125.000	-0.100	170.000	-0.100	24.000	-0.100
CHLORIDE	35.000	32.000	27.000	50.000	7.100	49.000	-1.000	6.900	9.700
CHROMIUM	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	-0.010	-0.100	0.150	-0.010	-0.010	-0.010	-0.010
FLUORIDE	0.200	0.800	16.000	24.000	3.200	50.000	60.000	2.400	0.480
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	-0.050	-0.050	5.000	-0.050	0.070	-0.050	0.150
LEAD	0.0	0.0	-0.050	-0.050	1.800	0.040	0.010	0.160	0.680
MAGNESIUM	72.000	25.000	23.000	0.700	23.000	3.800	22.000	94.000	90.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	1.000	1.000	0.200	0.190	0.150	-0.100	-0.100
PHOSPHATE	0.0	0.0	-0.100	-0.100	-0.100	0.430	0.090	-0.100	-0.100
POTASSIUM	-1.000	-0.100	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	35.000	21.000	17.000	9.400	19.000	6.500	12.000	12.000	24.000
SODIUM	245.000	310.000	485.000	955.000	270.000	1100.000	340.000	110.000	190.000
SULFATE	460.000	410.000	235.000	105.000	295.000	-4.000	280.000	225.000	320.000
SULFIDE	0.0	0.0	4.400	1.200	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.500	-0.500	0.860	0.340	0.180	1.900	1.400
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	15.000	4.700	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	330.000	190.000	140.000	54.000	130.000	24.000	130.000	330.000	440.000
PH	7.000	6.500	7.000	7.600	6.600	7.600	6.800	8.300	8.100
CONDUCTANC	1230.000	1240.000	2050.000	3150.000	1320.000	3950.000	1425.000	1240.000	1480.000
DIS SOLIDS	1390.000	620.000	1590.000	2250.000	860.000	2540.000	980.000	730.000	960.000
MANGANESE	0.0	0.0	0.0	0.0	0.060	-0.050	0.060	0.050	0.520
ALKALINITY	0.0	0.0	0.0	0.0	375.000	2080.000	420.000	410.000	495.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	2.100	2.100	0.100	2.000	1.200
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.020	-0.010	-0.010	0.100	0.080
NICKEL	0.0	0.0	0.0	0.0	0.060	0.020	-0.010	0.020	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	3.000	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.100	0.100	0.500	0.100	0.0	0.050	0.100	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.100	0.100	0.0	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	0.0	5.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.0	0.0	0.0	0.001	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.050	0.010	0.0	0.050	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	1.000	0.0	5.000	99999.000	0.0	0.0
MANGANESE	0.0	0.0	0.010	0.050	0.0	0.050	0.100	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.100	0.500	0.100	0.0	2.000	1.000	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	15.000	30.000	20.000	20.000	0.0	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.001	-0.001	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	2.000	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.0	0.0	0.100	0.100	0.0	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.010	0.005	0.0	0.001	0.010	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES[illegible]S -- CORE HOLE ID GS-6

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 163932.70 Y- 226189.30 Z- 6664.80
DATE DRILL COMPL- 72374 DATE CONV TO MONITOR- 0 AQUIFER 1: 180.00- 630.00FT AQUIFER 2: 1300.00-1780.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	70674	71274	71574	72374	32975	32975	42875	42875	51775	51775
DEPTH	227.00	489.00	992.00	1781.00	54.47	28.05	54.93	48.40	41.42	54.46
TEMP	57.0	58.0	61.0	81.0	46.0	46.9	48.2	50.0	49.6	49.6
LAB ID										
LAB NUM	1301	1403	1538	1694	8776	8699	9799	9798	366	367
METHOD	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	C	U	L	U	L	L	U
WET										
ALUMINUM	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	3.500	2.900	0.0	2.200	0.200	0.300	-0.100	1.000	0.900	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	590.000	620.000	570.000	2530.000	530.000	1620.000	530.000	1540.000	1560.000	550.000
CADMIUM	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.010	-0.010	-0.010
CALCIUM	37.000	23.000	18.000	11.000	16.000	9.000	20.000	0.800	5.700	23.000
CARBONATE	46.000	49.000	17.000	220.000	42.000	260.000	30.000	290.000	330.000	75.000
CHLORIDE	160.000	49.000	30.000	380.000	4.200	53.000	5.700	57.000	41.000	21.000
CHROMIUM	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.040	-0.100	-0.100
FLUORIDE	2.000	3.500	47.000	45.000	5.000	20.000	3.900	2.600	22.000	3.200
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	1.700	1.700	1.400	2.800	3.100	1.400
LEAD	0.0	0.0	0.0	0.0	0.090	0.200	0.090	0.200	0.200	0.040
MAGNESIUM	45.000	44.000	26.000	8.600	26.000	3.300	23.000	9.300	8.200	23.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	0.100	2.000	0.100	0.200	0.600	0.100	-0.100	-0.100
PHOSPHATE	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	-1.000	10.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	34.000	1.500	19.000	10.000	31.000	10.000	19.000	5.500	5.800	36.000
SODIUM	225.000	220.000	260.000	1430.000	205.000	840.000	225.000	700.000	670.000	250.000
SULFATE	510.000	110.000	190.000	130.000	28.000	16.000	105.000	60.000	40.000	30.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.200	0.800	1.000	1.100	3.500	0.400
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	275.000	620.000	150.000	62.000	150.000	36.000	145.000	40.000	48.000	150.000
PH	7.000	7.200	8.400	7.800	7.600	8.900	7.000	8.000	9.000	7.600
CONDUCTANC	1225.000	1090.000	825.000	4400.000	940.000	2570.000	955.000	3400.000	2930.000	960.000
DIS SOLIDS	1120.000	700.000	710.000	5040.000	620.000	1920.000	690.000	1880.000	2090.000	730.000
MANGANESE	0.0	0.0	0.0	0.0	0.550	-0.050	0.180	0.070	-0.050	0.100
ALKALINITY	0.0	0.0	0.0	0.0	469.000	1565.000	460.000	1500.000	4500.000	511.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.600	2.000	1.600	2.600	1.900	-0.010
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.040	0.100	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	-0.010	0.040	0.010	0.030	0.030	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	4.000	13.000	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID GS-6

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.0	0.100	0.100	0.100	0.050	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.100	0.100	0.500	0.200	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.010	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.050	0.100	0.200	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	99999.000	99999.000	10.000	99999.000	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.010	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.100	0.100	2.000	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	10.000	20.000	15.000	5.000	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.0	0.0	0.500	0.100	1.000	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 150076.70 Y- 223213.30 Z-  69951.00
DATE DRILL COMPL- 80674  DATE CONV TO MONITOR-      0  AQUIFER 1:  200.00- 400.00FT  AQUIFER 2: 1000.00-1200.00FT


SAMPLES              1          2          3

DATE             72974      80474      80674
DEPTH           261.00     774.00    1200.00
TEMP              53.0       56.0       63.0
LAB ID
LAB NUM           1909       2050       2051
METHOD               1          1          1
AQUIF.LOC.           U          U          C

WET

ALUMINUM        0.0        0.0        0.0
AMMONIA         0.600      3.200      0.300
ARSENIC        -0.010      0.030      0.200
BICARBONAT    435.000    683.000    637.000
CADMIUM         0.0        0.0        0.0
CALCIUM       120.000     88.000     79.000
CARBONATE      24.000     27.000     21.000
CHLORIDE       80.000     47.000    178.000
CHROMIUM        0.0        0.0        0.0
COPPER          0.0        0.0        0.0
FLUORIDE        0.100      8.000      2.000
HYDROXIDE      -0.100     -0.100     -0.100
IRON            0.0        0.0        0.0
LEAD            0.0        0.0        0.0
MAGNESIUM      52.000     34.000     88.000
MERCURY        -0.010     -0.010     -0.010
NITRATE         0.300     -0.100     -0.100
PHOSPHATE       0.0        0.0        0.0
POTASSIUM       3.600     -1.000     -1.000
SELENIUM       -0.010     -0.010     -0.010
SIL DIOXID     31.000     34.000     29.000
SODIUM        140.000    260.000    220.000
SULFATE       270.000    244.000    222.000
SULFIDE         0.0        0.0        0.0
ZINC            0.0        0.0        0.0
GROS ALPHA      0.0        0.0        0.0
GROSS BETA      0.0        0.0        0.0
HARDNESS      520.000    360.000    360.000
PH              7.000      7.100      7.100
CONDUCTANC    900.000   1220.000   1650.000
DIS SOLIDS    805.000   1316.000   1260.000
MANGANESE       0.0        0.0        0.0
ALKALINITY      0.0        0.0        0.0
CYANIDE         0.0        0.0        0.0
BORON           0.0        0.0        0.0
BARIUM          0.0        0.0        0.0
SILVER          0.0        0.0        0.0
NICKEL          0.0        0.0        0.0
LITHIUM         0.0        0.0        0.0
TOC             0.0        0.0        0.0
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RBOSP PROGRESS REPORT

SAMPLES	1	2	3
SPECTROGRAPHIC			
ALUMINUM	0.050	0.100	0.100
ANTIMONY	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0
BORON	0.100	0.100	0.100
CADMIUM	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0
COPPER	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0
GOLD	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0
IRON	0.010	0.010	0.100
LANTHANUM	0.0	0.0	0.0
LEAD	0.0	0.0	0.0
LITHIUM	0.0	0.010	0.0
LUTETIUM	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000
MANGANESE	0.0	0.010	0.010
MERCURY	0.0	0.0	0.0
MOLYBDENUM	0.0	0.005	0.001
NEODYMIUM	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.100
PRASEODYMI	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0
SILICON	25.000	30.000	30.000
SILVER	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3
STRONTIUM	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0
TIN	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.010
TUNGSTEN	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0
ZINC	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RES -- CORE HOLE ID GS-8

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 152484.10 Y- 221430.60 Z- 7270.30
DATE DRILL COMPL- 71974 DATE CONV TO MONITOR- 0 AQUIFER 1: 400.00- 720.00FT AQUIFER 2: 1060.00-1460.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	71574	71174	71274	71374	71574	71974	33075	42475	51775
DEPTH	0.0	550.00	664.00	890.00	1117.00	1616.00	630.67	653.28	645.73
TEMP	0.0	57.0	59.0	59.0	60.0	67.0	58.8	60.4	61.0
LAB ID									
LAB NUM	1415	1401	1402	1539	1540	1606	8883	9800	368
METHOD	0	1	1	1	1	1	3	3	3
AQUIF.LOC.		U	U	U	C	C	L	L	L
WET									
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0
AMMONIA	0.0	5.000	2.300	0.0	0.0	1.700	0.0	2.100	1.800
ARSENIC	0.0	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	490.000	500.000	410.000	430.000	590.000	1100.000	-0.100	-0.100	-0.100
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	0.010	-0.010
CALCIUM	98.000	82.000	72.000	62.000	39.000	43.000	515.000	510.000	500.000
CARBONATE	-0.100	-0.100	24.000	-0.100	-0.100	160.000	3160.000	70.000	-0.100
CHLORIDE	43.000	28.000	31.000	17.000	34.000	250.000	94.000	81.000	48.000
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010
COPPER	0.0	0.0	0.0	0.0	0.0	0.0	0.120	0.020	-0.100
FLUORIDE	0.400	0.500	1.000	1.100	4.700	25.000	-0.050	0.900	1.000
HYDROXIDE	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	0.0	890.000	880.000
IRON	-0.050	0.0	0.0	0.0	0.0	0.0	0.700	0.190	0.900
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	1.400	0.270	0.400
MAGNESIUM	89.000	74.000	56.000	33.000	54.000	35.000	-1.000	-1.000	2.400
MERCURY	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	-0.100	-0.100	-0.100	1.200	0.500	0.300	0.100
PHOSPHATE.	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100
POTASSIUM	0.0	-1.000	-1.000	6.200	7.000	-1.000	0.0	0.0	0.0
SELENIUM	0.0	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.001
SIL DIOXID	4.500	33.000	34.000	35.000	32.000	19.000	-0.100	11.000	1.200
SODIUM	200.000	110.000	120.000	200.000	250.000	910.000	1850.000	680.000	650.000
SULFATE	550.000	240.000	270.000	300.000	280.000	490.000	26.000	-4.000	10.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.190	0.050	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	610.000	510.000	410.000	290.000	320.000	250.000	950.000	1040.000	1260.000
PH	7.000	7.200	7.000	6.400	7.000	6.800	12.200	8.000	8.000
CONDUCTANC	0.0	1100.000	925.000	890.000	1050.000	1900.000	12000.000	10000.000	9200.000
DIS SOLIDS	3380.000	850.000	720.000	660.000	860.000	2180.000	5130.000	5730.000	2090.000
MANGANESE	0.200	0.0	0.0	0.0	0.0	0.0	-0.050	0.010	-0.050
ALKALINITY	390.000	0.0	0.0	0.0	0.0	0.0	2595.000	793.000	720.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	25.000	-0.010
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.060	0.050	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.000	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.100	0.500	0.500	0.100	0.100	0.010	0.050	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.050	0.200	0.100	0.200	0.500	0.500	0.100	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.010	0.0	0.0	0.0	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.010	0.010	0.010	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.010	0.010	0.010	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.010	0.001	0.010	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	0.100	0.0	0.100	0.100	0.500	2.000	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	20.000	25.000	30.000	30.000	15.000	10.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.500	0.100	0.0	0.0	0.100	0.100	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.010	0.0	0.0	0.0	0.005	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES L-- CORE HOLE ID GS-9

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155213.00 Y- 223771.80 Z- 7137.50
DATE DRILL COMPL- 91274 DATE CONV TO MONITOR- 0 AQUIFER 1: 410.00- 610.00FT AQUIFER 2: 1070.00-1240.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	90274	90474	90874	90974	91274	33175	33175	42675	42675	51575	51575
DEPTH	484.00	651.00	1115.00	1248.00	1600.00	494.46	322.94	323.39	516.74	323.24	509.66
TEMP	55.0	60.0	68.0	67.0	74.0	53.8	52.7	53.6	55.4	54.5	56.1
LAB ID											
LAB NUM	2613	2614	2867	2868	2869	8777	8778	9802	9801	370	369
METHOD	1	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	C	C	L	U	U	L	U	L
WET											
ALUMINUM	-0.050	-0.050	-0.050	-0.050	-0.050	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	1.900	0.500	2.900	2.700	0.500	0.200	0.400	0.200	0.120	0.200	0.300
ARSENIC	-0.010	-0.010	0.500	0.050	0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	605.000	620.000	1900.000	1525.000	2290.000	420.000	760.000	205.000	300.000	760.000	420.000
CADMIUM	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	167.000	148.000	71.000	59.000	25.000	36.000	145.000	135.000	20.000	200.000	29.000
CARBONATE	-0.100	-0.100	78.000	-0.100	180.000	-0.100	-0.100	-0.100	66.000	-0.100	46.000
CHLORIDE	13.000	15.000	68.000	48.000	230.000	17.000	15.000	14.000	19.000	21.000	17.000
CHROMIUM	-0.010	-0.010	0.250	0.570	0.030	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.0	0.0	-0.010	-0.100	-0.100	-0.010	-0.010	0.020	0.020	-0.100	-0.100
FLUORIDE	2.000	4.000	3.000	3.700	1.900	1.000	0.400	0.400	2.100	0.300	2.300
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.100	0.500	0.660	2.500	0.200	0.730	3.000	5.000	0.730	4.200	1.700
LEAD	0.0	0.0	0.500	0.100	-0.050	0.030	0.020	0.200	0.150	0.400	0.600
MAGNESIUM	53.000	70.000	25.000	55.000	8.400	59.000	50.000	50.000	43.000	17.000	29.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.200	0.400	1.500	4.900	7.000	0.200	0.200	0.300	0.300	-0.100	0.200
PHOSPHATE	-0.100	-0.100	0.500	0.400	0.700	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	93.000	2.100	2.000	0.400	7.200	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	46.000	51.000	41.000	27.000	8.200	7.200	56.000	53.000	7.100	51.000	3.500
SODIUM	175.000	180.000	845.000	580.000	1120.000	155.000	265.000	120.000	165.000	270.000	190.000
SULFATE	435.000	425.000	265.000	320.000	33.000	290.000	400.000	500.000	185.000	400.000	150.000
SULFIDE	0.0	0.0	0.800	1.200	0.400	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	1.000	0.700	0.500	0.100	0.100	0.120	0.110	0.600	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	635.000	655.000	280.000	375.000	96.000	330.000	565.000	550.000	230.000	570.000	190.000
PH	6.600	6.800	7.200	7.200	7.200	6.400	6.600	6.600	7.200	6.800	7.400
CONDUCTANC	1100.000	1275.000	2200.000	2340.000	3060.000	1010.000	1510.000	1100.000	1100.000	1640.000	970.000
DIS SOLIDS	1320.000	1300.000	2180.000	1850.000	2360.000	770.000	1310.000	980.000	650.000	1310.000	630.000
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.110	0.230	0.150	-0.050	0.100	-0.050
ALKALINITY	0.0	0.0	0.0	0.0	0.0	345.000	625.000	170.000	299.000	710.000	378.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	0.400	0.500	-0.100	0.100	-0.010	-0.010
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.020	0.040	0.020	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	0.030	0.010	0.020	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.000	6.000	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.010	0.0	0.050	0.100	0.050	0.100	0.100	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.0	0.500	0.100	0.500	2.000	1.000	0.0	0.0	0.0	0.0
CADMIUM	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.010	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.0	0.0	0.0	0.010	0.020	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.500	0.500	0.500	1.000	0.100	0.100	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.010	-0.500	-0.500	-0.500	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.100	0.050	0.0	0.010	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.010	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.100	0.100	0.100	1.000	1.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	35.000	50.000	50.000	20.000	10.000	5.000	2.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.0	0.0	0.100	0.100	0.0	1.000	0.500	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.010	0.010	0.010	0.010	0.010	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.100	0.0	0.010	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162483.60 Y- 221691.80 Z- 7013.00
DATE DRILL COMPL-100174 DATE CONV TO MONITOR- 0 AQUIFER 1: 640.00- 820.00FT AQUIFER 2: 1380.00-1600.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	92174	92774	93074	33175	33175	42775	42775	50975	50975
DEPTH	1014.00	1553.00	1885.00	371.74	341.20	341.09	393.92	341.76	389.30
TEMP	63.0	80.0	82.0	52.7	52.7	55.4	55.4	55.4	65.4
LAB ID									
LAB NUM	3108	4308	4306	8779	8780	9804	9803	9924	9923
METHOD	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	C	C	L	U	U	L	U	L
WET									
ALUMINUM	-0.050	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.500	0.300	0.200	0.0	0.0	0.370	-0.100	0.400	0.120
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	715.000	510.000	1630.000	1025.000	870.000	925.000	935.000	880.000	1070.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.010
CALCIUM	80.000	80.000	10.000	98.000	170.000	175.000	62.000	260.000	98.000
CARBONATE	-0.100	-0.100	390.000	-0.100	-0.100	-0.100	54.000	-0.100	5.800
CHLORIDE	4.800	14.000	4.300	24.000	15.000	13.000	28.000	21.000	34.000
CHROMIUM	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.050	-0.050
COPPER	-0.100	-0.100	0.100	-0.010	-0.010	-0.010	0.020	-0.100	-0.100
FLUORIDE	1.500	2.100	4.700	3.000	0.600	0.600	5.000	0.600	6.400
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	0.900	-0.050	0.110	0.050	3.600	3.500	6.900	9.100
LEAD	-0.050	0.120	0.080	-0.010	-0.010	0.230	0.500	0.070	0.420
MAGNESIUM	93.000	36.000	2.700	94.000	105.000	110.000	105.000	110.000	79.000
MERCURY	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	0.300	0.400	0.200	0.200	1.100	0.700	0.600	1.200
PHOSPHATE	0.100	4.700	4.300	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	20.000	7.500	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	35.000	17.000	12.000	32.000	58.000	57.000	25.000	54.000	23.000
SODIUM	185.000	240.000	930.000	410.000	365.000	330.000	440.000	280.000	380.000
SULFATE	360.000	450.000	-4.000	580.000	800.000	770.000	500.000	800.000	410.000
SULFIDE	-0.100	3.400	1.700	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.500	0.0	0.0	0.100	0.100	0.040	0.500	-0.100	0.800
GROS ALPHA	2.000	5.000	12.000	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	500.000	350.000	36.000	630.000	845.000	890.000	580.000	1110.000	570.000
PH	7.100	8.000	8.000	6.600	6.800	6.600	7.200	6.800	7.000
CONDUCTANC	1020.000	3700.000	3900.000	2038.000	2140.000	2470.000	2300.000	2460.000	1920.000
DIS SOLIDS	1250.000	1080.000	2650.000	1740.000	1940.000	1910.000	1680.000	1960.000	1580.000
MANGANESE	0.010	0.320	-0.050	0.190	0.110	0.050	0.090	0.020	0.080
ALKALINITY	0.0	0.0	0.0	840.000	715.000	760.000	809.000	720.000	884.700
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	2.200	0.500	1.300	0.800	0.500	0.200	0.400	0.800	1.300
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.020	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	-0.010	-0.010	0.030	0.030	0.010	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	3.000	5.000	3.000	7.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE S -- CORE HOLE ID GS-10

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.100	0.010	0.100	0.100	0.050	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	1.000	0.400	0.100	0.500	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.010	0.050	0.010	0.005	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.500	0.0	0.100	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	5.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.500	0.0	0.0	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	5.000	5.000	2.000	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.300	0.400	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	30.000	10.000	10.000	5.000	5.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.001	0.000	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

Where is Inst ??

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-11

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 154019.50 Y- 215731.70 Z- 7351.50
DATE DRILL COMPL-101174 DATE CONV TO MONITOR- 0 AQUIFER 1: 670.00- 910.00FT AQUIFER 2: 1350.00-1480.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	100374	100674	101174	33175	33175	42775	42775	50975	50975
DEPTH	723.00	996.00	1885.00	467.64	701.21	718.00	478.90	719.90	470.60
TEMP	56.0	59.0	71.0	55.4	58.6	58.1	55.4	59.9	57.5
LAB ID									
LAB NUM	4307	4309	4310	8782	8781	9925	9926	9927	9928
METHOD	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	U	L	L	U	L	U
WET									
ALUMINUM	-0.100	-0.100	-0.100	-0.100	-0.010	0.0	0.0	0.0	0.0
AMMONIA	0.300	0.100	0.300	0.0	0.0	0.120	0.780	0.120	0.340
ARSENIC	-0.010	-0.010	0.080	-0.010	0.0	-0.010	-0.010	-0.010	-0.010
BICARBONAT	1900.000	360.000	1600.000	395.000	390.000	550.000	500.000	530.000	420.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	0.010
CALCIUM	13.000	52.000	12.000	22.000	14.000	23.000	56.000	13.000	26.000
CARBONATE	234.000	30.000	240.000	12.000	60.000	11.000	5.800	13.000	4.800
CHLORIDE	71.000	10.000	140.000	17.000	8.300	21.000	17.000	21.000	14.000
CHROMIUM	0.200	-0.010	0.010	-0.010	-0.010	-0.050	-0.050	-0.050	-0.050
COPPER	0.100	0.100	-0.100	-0.010	-0.010	-0.100	-0.100	-0.100	-0.100
FLUORIDE	4.700	4.200	4.300	2.500	10.000	11.000	1.800	12.000	2.700
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	0.300	-0.050	0.100	-0.050	2.400	4.200	8.700	4.500
LEAD	0.090	-0.050	0.070	0.030	0.070	1.000	0.500	0.800	0.050
MAGNESIUM	4.600	16.000	11.000	29.000	20.000	23.000	54.000	19.000	38.000
MERCURY	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	1.100	0.100	0.300	0.200	0.700	0.400	1.200	0.300
PHOSPHATE	4.300	0.800	4.500	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	21.000	43.000	42.000	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	10.000	14.000	12.000	18.000	3.600	2.500	26.000	2.500	18.000
SODIUM	940.000	210.000	880.000	225.000	215.000	220.000	255.000	225.000	230.000
SULFATE	-4.000	300.000	130.000	260.000	130.000	90.000	400.000	63.000	290.000
SULFIDE	1.700	1.700	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	-0.100	-0.100	0.200	0.700	0.500	0.300
GROS ALPHA	9.500	3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	52.000	195.000	76.000	175.000	115.000	150.000	360.000	110.000	220.000
PH	6.900	6.800	8.000	7.200	7.500	7.800	7.000	7.400	6.800
CONDUCTANC	1150.000	930.000	3600.000	979.000	923.000	1020.000	1480.000	995.000	1220.000
DIS SOLIDS	2685.000	735.000	2940.000	780.000	650.000	660.000	1060.000	640.000	830.000
MANGANESE	-0.050	-0.050	-0.050	0.110	-0.050	0.010	0.060	0.050	0.050
ALKALINITY	0.0	0.0	0.0	334.800	369.000	459.000	440.000	441.000	343.900
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.200	0.900	0.600	0.700	0.800	0.940	0.900	1.000	0.800
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.010	0.020	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	4.000	1.000	4.000	1.000

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.010	0.0	0.100	0.100	0.500	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0.	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.100	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.050	0.050	0.010	0.010	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.100	0.050	0.050	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.100	0.100	0.010	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	5.000	10.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.050	0.050	0.010	0.010	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	99999.000	10.000	1.000	5.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	10.000	10.000	10.000	5.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	-0.001	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.0	0.0	0.0	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.010	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155416.40 Y- 217335.40 Z- 7276.50
DATE DRILL COMPL- 91574 DATE CONV TO MONITOR- 0 AQUIFER 1: 560.00- 620.00FT AQUIFER 2: 1280.00-1380.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	90874	90974	91074	91274	91574	40275	40575	40775	40975	41275	42775	42775
DEPTH	641.00	806.00	994.00	1391.00	1800.00	0.0	0.0	0.0	0.0	0.0	648.60	407.50
TEMP	60.0	61.0	0.0	69.0	73.0	54.0	0.0	0.0	57.2	57.7	57.2	51.8
LAB ID												
LAB NUM	4131	4572	4132	4311	3111	8881	8783	8784	8882	9933	9929	9930
METHOD	1	1	1	1	1	2	2	2	2	2	3	3
AQUIF.LOC.	U	U	U	C	C	L	L	L	L	U	L	U
WET												
ALUMINUM	2.200	0.0	0.500	-0.100	-0.050	0.300	-0.100	-0.100	0.500	0.0	0.0	0.0
AMMONIA	0.200	0.0	0.200	0.200	2.000	0.300	0.0	0.0	0.300	0.250	0.120	-0.100
ARSENIC	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	690.000	2300.000	520.000	1160.000	2470.000	670.000	650.000	650.000	645.000	640.000	350.000	200.000
CADMIUM	-0.010	0.0	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.020	0.010
CALCIUM	93.000	3.100	110.000	26.000	11.000	110.000	75.000	72.000	100.000	92.000	67.000	30.000
CARBONATE	-0.100	250.000	66.000	200.000	330.000	-0.100	-0.100	-0.100	-0.100	-0.100	6.700	-0.100
CHLORIDE	7.100	160.000	10.000	21.000	96.000	-1.000	9.700	9.700	2.800	14.000	14.000	21.000
CHROMIUM	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.050	-0.050	-0.050
COPPER	-0.100	0.0	-0.100	-0.100	-0.100	-0.010	-0.010	-0.010	0.120	-0.100	0.100	-0.100
FLUORIDE	2.800	5.000	4.500	4.900	4.000	0.660	0.200	0.200	0.220	0.200	0.100	0.300
HYDROXIDE	-0.100	0.0	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	0.070	-0.050	0.900	0.200	0.300	0.310	0.200	1.600	8.500	9.100
LEAD	0.030	0.0	-0.050	0.050	0.120	0.020	-0.010	0.030	-0.010	-0.010	0.250	0.230
MAGNESIUM	83.000	8.600	45.000	22.000	16.000	69.000	80.000	78.000	70.000	85.000	88.000	62.000
MERCURY	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	0.300	0.200	-0.100	0.400	0.050	0.900
PHOSPHATE	0.500	0.0	1.500	5.400	0.300	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	1.500	0.0	21.000	44.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	34.000	9.600	3.000	12.000	13.000	43.000	48.000	50.000	49.000	46.000	8.500	2.900
SODIUM	260.000	780.000	240.000	620.000	1200.000	280.000	305.000	305.000	265.000	260.000	120.000	160.000
SULFATE	530.000	-4.000	470.000	200.000	38.000	510.000	540.000	540.000	500.000	480.000	410.000	430.000
SULFIDE	0.0	0.0	0.0	1.700	0.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	-0.500	0.020	-0.100	0.100	0.010	-0.100	0.900	1.200
GROS ALPHA	0.0	0.0	0.0	0.0	11.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	575.000	43.000	455.000	160.000	84.000	555.000	515.000	500.000	540.000	580.000	530.000	330.000
PH	7.000	7.200	8.100	7.600	7.800	6.600	7.600	7.500	6.600	6.800	6.800	6.400
CONDUCTANC	1450.000	1740.000	1480.000	2740.000	3750.000	1550.000	1680.000	1690.000	1690.000	1700.000	1750.000	1480.000
DIS SOLIDS	1325.000	3140.000	1150.000	2030.000	3840.000	1340.000	1380.000	1370.000	1300.000	1290.000	890.000	820.000
MANGANESE	0.050	-0.050	-0.050	-0.050	-0.050	-0.050	0.170	0.120	-0.050	0.030	0.300	0.680
ALKALINITY	0.0	2095.000	0.0	0.0	0.0	550.000	535.000	535.000	530.000	530.000	295.500	160.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	0.0	0.300	-0.050	1.500	-0.100	0.300	0.300	0.400	1.200	0.640	0.800
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.020	0.040	0.030	0.070	0.020	0.040	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.000	4.000	10.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	1.000	0.0	0.500	0.100	0.0	0.050	0.100	0.050	0.010	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	1.000	0.0	0.500	1.000	0.0	0.100	0.100	0.500	0.100	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0	0.010	0.050	0.005	0.020	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.0	0.100	0.0	0.500	0.050	0.100	0.100	0.050	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.0	0.010	0.500	0.050	0.010	0.010	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0
MANGANESE	0.100	0.0	0.100	0.010	0.0	0.010	0.0	0.0	0.010	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	0.0	10.000	99999.000	0.0	2.000	5.000	2.000	1.000	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	0.0	5.000	10.000	20.000	10.000	5.000	10.000	10.000	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
SODIUM	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE S -- CORE HOLE ID GS-12

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.100	0.0	0.100	0.0	0.100	0.100	0.100	0.100	0.500	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0	0.0	0.050	0.0	0.001	0.005	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-12

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155416.40 Y- 217335.40 Z- 7276.50
DATE DRILL COMPL- 91574 DATE CONV TO MONITOR- 0 AQUIFER 1: 580.00- 620.00FT AQUIFER 2: 1280.00-1380.00FT

SAMPLES	13	14
DATE	50975	50975
DEPTH	646.90	646.90
TEMP	57.0	55.3
LAB ID		
LAB NUM	9931	9932
METHOD	3	3
AQUIF.LOC.	L	U
WET		
ALUMINUM	0.0	0.0
AMMONIA	-0.100	-0.100
ARSENIC	-0.010	-0.010
BICARBONAT	470.000	100.000
CADMIUM	0.010	0.020
CALCIUM	48.000	16.000
CARBONATE	14.000	-0.100
CHLORIDE	21.000	27.000
CHROMIUM	-0.050	-0.050
COPPER	-0.100	-0.100
FLUORIDE	0.100	0.100
HYDROXIDE	0.0	0.0
IRON	9.100	9.300
LEAD	0.1 0	-0.010
MAGNESIUM	78.000	11.000
MERCURY	-0.010	-0.010
NITRATE	0.100	0.200
PHOSPHATE	-0.100	-0.100
POTASSIUM	0.0	0.0
SELENIUM	-0.010	-0.010
SIL DIOXID	2.500	0.600
SODIUM	210.000	225.000
SULFATE	430.000	420.000
SULFIDE	0.0	0.0
ZINC	1.000	0.200
GROS ALPHA	0.0	0.0
GROSS BETA	0.0	0.0
HARDNESS	440.000	86.000
PH	6.900	6.600
CONDUCTANC	1780.000	1225.000
DIS SOLIDS	1040.000	1045.000
MANGANESE	0.140	0.780
ALKALINITY	392.000	82.000
CYANIDE	-0.010	-0.010
BORON	0.700	1.200
BARIUM	-1.000	-1.000
SILVER	-0.010	-0.010
NICKEL	0.020	0.020
LITHIUM	0.0	0.0
TOC	4.000	4.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-12

SAMPLES	13	14
SPECTROGRAPHIC		
ALUMINUM	0.0	0.0
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.0	0.0
CADMIUM	0.0	0.0
CALCIUM	0.0	0.0
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.0	0.0
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.0	0.0
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.0	0.0
LUTETIUM	0.0	0.0
MAGNESIUM	0.0	0.0
MANGANESE	0.0	0.0
MERCURY	0.0	0.0
MOLYBDENUM	0.0	0.0
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0
PLATINUM	0.0	0.0
POTASSIUM	0.0	0.0
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	0.0	0.0
SILVER	0.0	0.0
SODIUM	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	13	14
STRONTIUM	0.0	0.0
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-13

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156583.60 Y- 219490.80 Z- 7201.90
DATE DRILL COMPL- 92774 DATE CONV TO MONITOR- 0 AQUIFER 1: 510.00- 840.00FT AQUIFER 2: 1280.00-1380.00FT

SAMPLES	1	2	3	4	5	6	7
DATE	92274	92574	92774	42775	42775	50875	50975
DEPTH	808.00	1333.00	1751.00	578.10	384.40	573.80	384.80
TEMP	55.0	61.0	76.0	56.3	53.6	59.6	54.5
LAB ID							
LAB NUM	3110	4312	4320	9934	9935	9936	9937
METHOD	1	1	1	3	3	3	3
AQUIF.LOC.	U	C	C	L	U	L	U
WET							
ALUMINUM	-0.050	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.900	0.0	0.400	0.120	-0.100	0.200	-0.100
ARSENIC	-0.010	-0.010	0.010	-0.010	0.010	-0.010	-0.010
BICARBONAT	525.000	1550.000	2290.000	630.000	525.000	495.000	460.000
CADMIUM	-0.010	-0.010	0.014	0.020	-0.010	-0.010	-0.010
CALCIUM	61.000	7.800	11.000	21.000	53.000	21.000	49.000
CARBONATE	33.000	205.000	220.000	28.000	36.000	110.000	66.000
CHLORIDE	6.100	57.000	21.000	21.000	14.000	14.000	13.000
CHROMIUM	-0.010	-0.010	0.200	-0.050	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100
FLUORIDE	2.300	4.300	2.300	6.200	0.100	7.000	0.100
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	0.100	2.900	3.300	1.500	1.800
LEAD	-0.050	0.090	0.170	0.300	0.900	0.390	1.100
MAGNESIUM	53.000	9.300	2.700	51.000	79.000	48.000	82.000
MERCURY	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	0.600	-0.100	0.150	0.400	0.200	0.500
PHOSPHATE	0.200	3.300	3.500	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	74.000	64.000	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	30.000	6.400	9.300	3.100	23.000	2.300	26.000
SODIUM	295.000	700.000	900.000	295.000	210.000	270.000	200.000
SULFATE	480.000	10.000	-4.000	260.000	360.000	235.000	345.000
SULFIDE	-0.100	3.400	0.0	0.0	0.0	0.0	0.0
ZINC	-0.500	0.0	0.0	1.100	3.700	1.200	1.400
GROS ALPHA	0.900	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	20.000	26.000	0.0	0.0	0.0	0.0
HARDNESS	370.000	58.000	39.000	620.000	455.000	250.000	460.000
PH	7.100	7.000	7.600	7.800	7.000	7.300	6.900
CONDUCTANC	1100.000	1350.000	3500.000	1530.000	1550.000	1570.000	1460.000
DIS SOLIDS	1370.000	2280.000	2435.000	990.000	1040.000	950.000	1010.000
MANGANESE	-0.050	0.110	-0.050	0.010	0.070	-0.050	0.080
ALKALINITY	0.0	0.0	0.0	543.000	460.000	493.000	429.000
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
BORON	1.200	0.800	1.200	0.940	0.270	0.080	0.070
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.010	0.040	0.040	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	3.000	3.000	2.000	2.000

RBOSP PROGRESS REPORT

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SAMPLES	1	2	3	4	5	6	7
SPECTROGRAPHIC							
ALUMINUM	0.050	0.0	0.100	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	2.000	0.500	0.500	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.010	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.0	0.050	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	-0.050	0.500	1.000	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	5.000	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.050	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	99999.000	99999.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	30.000	99999.000	20.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0.
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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                                          WATER QUALITY ANALYSIS RESU   — CORE HOLE ID GS-14                          PAG  3
 JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X  159410.93 Y- 218584.19 Z-   7088.00
 DATE DRILL COMPL-102274  DATE CONV TO MONITOR-     0  AQUIFER 1:  680.00- 780.00FT  AQUIFER 2: 1200.00-1400.00FT


 SAMPLES              1          2          3

 DATE            101474     101874     102274
 DEPTH           879.00    1331.00    1794.00
 TEMP              58.0       67.0       72.0
 LAB ID
 LAB NUM           4313       4314       4315
 METHOD               1          1          1
 AQUIF.LOC.           U          C          C

 WET

 ALUMINUM        -0.100     -0.100     -0.100
 AMMONIA          0.200      0.200      0.200
 ARSENIC         -0.010     -0.010     -0.010
 BICARBONAT     460.000   1770.000   1960.000
 CADMIUM         -0.010     -0.010      0.010
 CALCIUM         76.000     27.000     11.000
 CARBONATE       42.000     -0.100    270.000
 CHLORIDE         4.300      7.100     71.000
 CHROMIUM        -0.010     -0.010     -0.010
 COPPER          -0.100     -0.100     -0.100
 FLUORIDE         3.000      4.400      4.300
 HYDROXIDE       -0.100     -0.100     -0.100
 IRON             0.080      0.240      0.200
 LEAD            -0.050     -0.050     -0.050
 MAGNESIUM       53.000     27.000      1.200
 MERCURY          0.0        0.0        0.0
 NITRATE          0.200      0.100      0.600
 PHOSPHATE        0.500      6.200      3.700
 POTASSIUM        3.100      9.300     10.000
 SELENIUM        -0.010     -0.010     -0.010
 SIL DIOXID      25.000     15.000     10.000
 SODIUM         230.000    680.000    480.000
 SULFATE        410.000    300.000     -4.000
 SULFIDE          3.400     12.000      1.700
 ZINC             0.0        0.0        0.0
 GROS ALPHA       2.000      0.0        0.0
 GROSS BETA       0.0       56.000     22.000
 HARDNESS       410.000    180.000     33.000
 PH               6.700      7.400      8.500
 CONDUCTANC    1060.000   2500.000   2200.000
 DIS SOLIDS    1050.000   2075.000   2500.000
 MANGANESE       -0.050     -0.050     -0.050
 ALKALINITY       0.0        0.0        0.0
 CYANIDE          0.0        0.0        0.0
 BORON            1.300      0.300     -0.100
 BARIUM           0.0        0.0        0.0
 SILVER           0.0        0.0        0.0
 NICKEL           0.0        0.0        0.0
 LITHIUM          0.0        0.0        0.0
 TOC              0.0        0.0        0.0
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SAMPLES	1	2	3
SPECTROGRAPHIC			
ALUMINUM	0.050	0.0	0.0
ANTIMONY	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0
BORON	5.000	1.000	0.500
CADMIUM	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0
COPPER	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0
GOLD	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0
IRON	0.050	0.500	0.500
LANTHANUM	0.0	0.0	0.0
LEAD	0.500	0.500	0.500
LITHIUM	0.0	0.0	0.500
LUTETIUM	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	5.000
MANGANESE	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0
POTASSIUM	5.000	5.000	5.000
PRASEODYMI	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0
SILICON	20.000	20.000	10.000
SILVER	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000

SAMPLES	1	2	3
STRONTIUM	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0
TIN	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.010
TUNGSTEN	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0
ZINC	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID GS-15

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162945.30 Y- 215066.80 Z- 6991.00
DATE DRILL COMPL-102774 DATE CONV TO MONITOR- 0 AQUIFER 1: 600.00- 700.00FT AQUIFER 2: 1300.00-1400.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	101974	102174	102474	102774	33175	33175	42775	42775	50975	50975
DEPTH	707.00	953.00	1359.00	1835.00	344.56	275.33	360.90	275.00	361.40	275.00
TEMP	57.0	58.0	67.0	78.0	53.5	51.8	55.4	53.6	63.0	55.0
LAB ID										
LAB NUM	4316	4317	4318	4319	8785	8786	9938	9939	9940	9941
METHOD	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	C	L	U	L	U	L	U
WET										
ALUMINUM	0.700	-0.100	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.200	0.200	0.200	0.200	0.0	0.0	-0.100	-0.100	0.400	-0.100
ARSENIC	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010
BICARBONAT	500.000	400.000	1980.000	2010.000	555.000	-0.100	475.000	43.000	495.000	-0.100
CADMIUM	-0.010	-0.010	-0.010	0.014	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	125.000	50.000	33.000	13.000	69.000	5.300	62.000	17.000	83.000	4.100
CARBONATE	-0.100	54.000	140.000	290.000	-0.100	120.000	36.000	145.000	24.000	190.000
CHLORIDE	7.100	21.000	21.000	43.000	9.700	43.000	11.000	10.000	8.600	39.000
CHROMIUM	0.500	0.100	0.200	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.010	-0.010	-0.100	-0.100	-0.100	-0.100
FLUORIDE	4.600	4.300	4.200	3.700	0.400	0.400	0.400	1.400	0.400	0.900
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	-0.050	-0.050	0.100	-0.050	-0.050	2.800	0.280	3.000	1.100
LEAD	-0.050	0.050	-0.050	-0.050	-0.010	-0.010	0.280	0.300	0.490	0.290
MAGNESIUM	49.000	56.000	22.000	2.000	140.000	15.000	135.000	66.000	120.000	35.000
MERCURY	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	-0.100	-0.100	0.200	0.300	0.200	0.300	-0.100	0.400
PHOSPHATE	9.200	1.100	6.200	4.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	6.300	3.300	8.500	6.300	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	29.000	19.000	13.000	9.600	9.000	3.500	8.100	12.000	7.400	2.200
SODIUM	260.000	240.000	860.000	1050.000	210.000	300.000	235.000	190.000	220.000	265.000
SULFATE	690.000	450.000	200.000	-4.000	710.000	440.000	740.000	385.000	700.000	360.000
SULFIDE	3.400	1.700	5.100	3.400	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	-0.100	-0.100	0.300	0.300	0.300	0.100
GROS ALPHA	0.0	9.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	16.000	57.000	1.600	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	510.000	355.000	170.000	0.0	740.000	76.000	705.000	310.000	705.000	150.000
PH	7.100	7.000	8.500	0.0	7.200	10.200	6.900	8.000	6.500	8.000
CONDUCTANC	1060.000	1100.000	2800.000	0.0	1563.000	1445.000	2080.000	1490.000	1990.000	1240.000
DIS SOLIDS	1350.000	970.000	2375.000	0.0	1420.000	930.000	1460.000	780.000	1410.000	890.000
MANGANESE	0.070	-0.050	-0.050	0.0	0.300	-0.050	0.150	-0.050	0.140	-0.050
ALKALINITY	0.0	0.0	0.0	0.0	455.000	98.000	420.000	155.000	425.000	155.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	-0.100	-0.100	0.0	0.500	0.500	0.050	0.060	0.070	0.080
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.020	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	-0.010	-0.010	0.030	0.020	0.020	0.150
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	3.000	2.000	4.000	4.000

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.500	0.100	1.000	0.100	0.010	0.010	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.050	0.500	0.500	0.100	0.100	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.010	0.005	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.500	0.050	0.0	0.050	0.200	0.050	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.050	0.100	0.500	1.000	0.001	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	10.000	5.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.100	0.050	0.050	0.050	0.010	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	5.000	5.000	5.000	0.0	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.300	0.0	0.500	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	10.000	5.000	10.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES -- CORE HOLE ID GS-15

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.100	0.0	0.0	0.0	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0	0.001	0.005	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE — CORE HOLE ID GS-16

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155352.57 Y- 217387.19 Z- 0.0
DATE DRILL COMPL-113074 DATE CONV TO MONITOR- 0 AQUIFER 1: 1100.00-1300.00FT AQUIFER 2: 1320.00-1630.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	112074	113074	113074	11775	21175	21575	21575	21675	21975	22075	22575	22675
DEPTH	598.00	1313.00	1560.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TEMP	56.0	68.0	67.0	75.2	75.6	74.3	73.4	74.3	77.0	0.0	78.8	75.4
LAB ID												
LAB NUM	5069	6178	6179	8316	8314	7092	8315	7093	7211	7209	8317	8319
METHOD	1	1	1	2	2	2	2	2	2	2	2	2
AQUIF.LOC.	U	C	C	L	L	L	L	L	L	L	L	L
WET												
ALUMINUM	-0.100	0.0	0.0	-0.010	0.100	0.0	-0.010	0.0	0.0	0.0	-0.010	-0.010
AMMONIA	0.170	1.500	2.500	0.0	0.700	0.0	1.100	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.020	-0.100	-0.010	-0.010	-0.010	0.030	-0.010	0.0	-0.010	0.0	-0.010	-0.010
BICARBONAT	620.000	2290.000	2650.000	2390.000	1830.000	2620.000	2670.000	2500.000	2760.000	0.0	2760.000	2840.000
CADMIUM	-0.010	0.020	0.020	-0.010	-0.010	0.020	-0.010	0.0	-0.010	0.0	-0.010	-0.010
CALCIUM	100.000	9.000	6.600	16.000	16.000	13.000	6.600	12.000	8.200	0.0	3.300	17.000
CARBONATE	-0.100	220.000	72.000	110.000	-0.100	48.000	96.000	48.000	-0.100	0.0	36.000	-0.100
CHLORIDE	6.900	180.000	190.000	49.000	90.000	150.000	140.000	140.000	130.000	0.0	115.000	130.000
CHROMIUM	-0.050	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	0.0	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.010	-0.010	0.030	-0.010	0.0	0.020	0.0	-0.010	-0.010
FLUORIDE	1.900	3.300	3.400	50.000	70.000	80.000	70.000	70.000	40.000	50.000	120.000	70.000
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0	0.0
IRON	0.220	0.060	-0.050	-0.050	-0.050	0.110	-0.050	0.130	0.090	0.0	-0.050	0.100
LEAD	-0.050	-0.050	-0.050	0.010	0.010	0.050	0.010	0.0	0.080	0.0	0.010	0.020
MAGNESIUM	80.000	14.000	6.200	22.000	29.000	-1.000	13.000	2.900	7.300	0.0	13.000	1.200
MERCURY	-0.010	0.0	0.0	-0.010	-0.010	0.0	-0.010	0.0	0.0	0.0	-0.010	-0.010
NITRATE	-0.100	1.200	0.200	-0.010	55.000	2.600	-0.010	1.900	-0.010	0.0	0.190	2.500
PHOSPHATE	0.200	-0.100	-0.100	0.280	-0.010	0.0	0.130	0.0	-0.010	0.0	0.170	0.200
POTASSIUM	73.000	7.800	9.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.100	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	0.0	-0.010	-0.010
SIL DIOXID	37.000	31.000	36.000	14.000	5.300	11.000	6.500	12.000	11.000	0.0	6.800	6.400
SODIUM	240.000	1220.000	1250.000	1040.000	850.000	1200.000	1200.000	1140.000	1120.000	0.0	1230.000	1240.000
SULFATE	510.000	69.000	160.000	44.000	215.000	-4.000	-4.000	31.000	41.000	0.0	34.000	43.000
SULFIDE	1.100	0.0	0.0	0.0	0.0	0.0	-0.010	0.0	0.0	0.0	0.0	0.0
ZINC	-0.500	-0.500	-0.500	0.020	0.420	0.200	0.170	0.0	-0.100	0.0	0.010	0.030
GROS ALPHA	5.000	7.400	0.500	12.000	3.800	0.0	9.600	0.0	0.0	0.0	0.0	20.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	570.000	80.000	42.000	130.000	160.000	36.000	68.000	42.000	50.000	0.0	60.000	48.000
PH	7.000	8.800	8.600	8.200	7.400	7.200	7.400	7.500	7.200	0.0	7.500	7.400
CONDUCTANC	1500.000	4400.000	4600.000	3200.000	4300.000	3940.000	4190.000	4200.000	4000.000	0.0	4150.000	4050.000
DIS SOLIDS	1400.000	2900.000	2950.000	2530.000	2210.000	2790.000	2840.000	2690.000	2710.000	0.0	2910.000	2900.000
MANGANESE	0.0	-0.050	0.050	-0.050	0.120	-0.010	-0.050	-0.010	-0.050	0.0	-0.010	-0.050
ALKALINITY	0.0	0.0	0.0	2048.000	1500.000	2189.000	2269.000	2089.000	2260.000	0.0	2290.000	2330.000
CYANIDE	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	0.0	-0.010	-0.010
BORON	0.0	0.0	0.0	4.900	2.000	6.100	3.600	6.000	14.000	13.000	3.700	2.000
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	0.0	-1.000	0.0	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	-0.010	0.040	-0.010	0.0	0.020	0.0	-0.010	-0.010
NICKEL	0.0	0.0	0.0	-0.010	-0.010	0.0	-0.010	0.0	0.0	0.0	-0.010	-0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-16

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.200	0.100	0.500	1.000	0.010	1.000	0.100	0.0	0.100	0.500
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.100	0.010	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.100	0.100	0.100	5.000	0.100	5.000	99999.000	0.0	0.100	0.100
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	10.000	5.000	99999.000	99999.000	10.000	99999.000	10.000	10.000	0.0	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.001	0.010	0.005	0.050	0.010	0.100	0.0	0.0	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.050	0.050	0.100	0.100	0.100	0.100	0.100	0.0	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.100	0.100	0.010	0.010	0.010	0.010	0.010	0.010	0.0	0.050	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	10.000	99999.000	99999.000	5.000	99999.000	5.000	5.000	0.0	99999.000	99999.000
MANGANESE	0.0	10.000	0.030	0.010	0.001	0.010	0.010	0.010	0.001	0.0	0.010	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	99999.000	5.000	5.000	5.000	2.000	0.0	2.000	0.0	0.0	0.0	2.000	2.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	25.000	30.000	2.000	5.000	5.000	2.000	10.000	10.000	0.0	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	99999.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RES — CORE HOLE ID GS-16

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.0	0.0	0.100	0.100	0.100	0.010	0.0	0.010	0.010	0.0	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.010	0.0	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.010
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155352.57 Y- 217387.19 Z-      0.0
DATE DRILL COMPL-113074  DATE CONV TO MONITOR-     0  AQUIFER 1: 1100.00-1300.00FT  AQUIFER 2: 1320.00-1830.00FT

SAMPLES             13          14

DATE             31175       50975
DEPTH              0.0         0.0
TEMP              80.6        60.8
LAB ID
LAB NUM           8318         170
METHOD               2           3
AQUIF.LOC.           L           L

WET

ALUMINUM        -0.010        0.0
AMMONIA          0.0          1.400
ARSENIC         -0.010       -0.010
BICARBONAT    2350.000     2420.000
CADMIUM         -0.010       -0.010
CALCIUM          4.900       17.000
CARBONATE      160.000      240.000
CHLORIDE       115.000      160.000
CHROMIUM        -0.010        0.0
COPPER          -0.010       -0.100
FLUORIDE        80.000       72.000
HYDROXIDE        0.0          0.0
IRON            -0.050        1.900
LEAD             0.040        0.060
MAGNESIUM        8.800        7.200
MERCURY         -0.010       -0.010
NITRATE          0.1 0       -0.100
PHOSPHATE        0.170       -0.100
POTASSIUM        0.0          0.0
SELENIUM        -0.010       -0.010
SIL DIOXID       6.700       14.000
SODIUM        1150.000     1200.000
SULFATE         12.000       50.000
SULFIDE          0.0          0.0
ZINC            -0.010        0.100
GROS ALPHA      16.000        0.0
GROSS BETA      13.000        0.0
HARDNESS        48.000       72.000
PH               7.400        8.000
CONDUCTANC    3600.000     4180.000
DIS SOLIDS    2690.000     2950.000
MANGANESE       -0.050       -0.050
ALKALINITY    1560.000     2180.000
CYANIDE         -0.010       -0.010
BORON            3.300        5.300
BARIUM          -1.000       -1.000
SILVER          -0.010       -0.010
NICKEL          -0.010        0.100
LITHIUM          0.0          0.0
TOC              0.0         13.000
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RBOSP PROGRESS REPORT

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SAMPLES            13         14

SPECTROGRAPHIC

ALUMINUM          0.500      0.0
ANTIMONY          0.0        0.0
ARSENIC           0.0        0.0
BARIUM            0.0        0.0
BERYLIUM          0.0        0.0
BISMUTH           0.0        0.0
BORON             0.100      0.0
CADMIUM           0.0        0.0
CALCIUM       99999.000      0.0
CERIUM            0.0        0.0
CESIUM            0.0        0.0
CHROMIUM          0.0        0.0
COBOLT            0.0        0.0
COLUMBIUM         0.0        0.0
COPPER            0.010      0.0
DYSPROSIUM        0.0        0.0
ERBIUM            0.0        0.0
EUROPIUM          0.0        0.0
GADOLINIUM        0.0        0.0
GALLIUM           0.0        0.0
GERMANIUM         0.0        0.0
GOLD              0.0        0.0
HAFNIUM           0.0        0.0
HOLMIUM           0.0        0.0
INDIUM            0.0        0.0
IRIDIUM           0.0        0.0
IRON              0.050      0.0
LANTHANUM         0.0        0.0
LEAD              0.0        0.0
LITHIUM           0.010      0.0
LUTETIUM          0.0        0.0
MAGNESIUM     99999.000      0.0
MANGANESE         0.001      0.0
MERCURY           0.0        0.0
MOLYBDENUM        0.0        0.0
NEODYMIUM         0.0        0.0
NICKEL            0.0        0.0
OSMIUM            0.0        0.0
PALLADIUM         0.0        0.0
PLATINUM          0.0        0.0
POTASSIUM         2.000      0.0
PRASEODYMI        0.0        0.0
RADIUM            0.0        0.0
RHENIUM           0.0        0.0
RHODIUM           0.0        0.0
RUBIDIUM          0.0        0.0
RUTHENIUM         0.0        0.0
SAMARIUM          0.0        0.0
SCANDIUM          0.0        0.0
SELENIUM          0.0        0.0
SILICON           5.000      0.0
SILVER            0.0        0.0
SODIUM        99999.000      0.0
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245

SAMPLES	13	14
STRONTIUM	0.100	0.0
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

WATER QUALITY ANALYSIS PE S -- CORE HOLE ID GS-17

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151719.55 Y- 229929.78 Z- 0.0
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	112074	112174	112474	121374	121474	121474	121474	10675	10675	11875	11875	11875
DEPTH	458.00	796.00	1050.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TEMP	56.0	55.0	52.0	53.6	59.0	57.2	0.0	59.0	61.7	61.7	60.8	65.3
LAB ID												
LAB NUM	5070	5737	5071	5738	5739	5740	5741	6180	6181	6322	6323	6324
METHOD	1	1	1	1	1	1	1	2	2	2	2	2
AQUIF.LOC.	U	U	L	L	L	L	L	L	L	L	L	L
WET												
ALUMINUM	-0.100	0.0	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.400	0.0	1.900	0.0	0.0	0.0	0.0	0.200	-0.100	0.0	0.0	0.0
ARSENIC	0.030	0.0	-0.050	0.0	0.0	0.0	0.0	-0.010	-0.010	0.0	0.0	0.0
BICARBONAT	430.000	500.000	550.000	510.000	650.000	650.000	660.000	990.000	730.000	830.000	770.000	850.000
CADMIUM	-0.010	0.0	-0.010	0.0	0.0	0.0	0.0	0.030	0.020	0.0	0.0	0.0
CALCIUM	66.000	90.000	64.000	85.000	74.000	72.000	71.000	23.000	48.000	98.000	97.000	64.000
CARBONATE	-0.100	-0.100	18.000	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-1.000	-1.000	-1.000
CHLORIDE	8.300	14.000	6.900	14.000	14.000	15.000	11.000	42.000	28.000	41.000	41.000	41.000
CHROMIUM	-0.050	0.0	-0.050	0.0	0.0	0.0	0.0	-0.050	-0.050	0.0	0.0	0.0
COPPER	-0.100	0.0	-0.100	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0
FLUORIDE	2.400	0.060	10.000	0.050	0.050	0.030	0.050	8.000	4.000	4.000	3.000	3.000
HYDROXIDE	-0.100	0.0	-0.100	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0
IRON	-0.050	-0.050	3.000	0.070	0.070	0.080	0.070	12.200	0.520	0.660	5.000	-0.050
LEAD	-0.050	0.0	0.140	0.0	0.0	0.0	0.0	0.190	-0.050	0.0	0.0	0.0
MAGNESIUM	35.000	37.000	56.000	47.000	51.000	57.000	55.000	69.000	69.000	30.000	36.000	51.000
MERCURY	-0.010	0.0	-0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NITRATE	2.100	0.200	-0.100	0.300	1.200	0.400	0.300	0.800	0.400	0.230	0.090	0.230
PHOSPHATE	0.100	0.0	-0.100	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0
POTASSIUM	-1.000	0.0	84.000	0.0	0.0	0.0	0.0	-1.000	-1.000	0.0	0.0	0.0
SELENIUM	-0.010	0.0	-0.010	0.0	0.0	0.0	0.0	-0.010	-0.010	0.0	0.0	0.0
SIL DIOXID	25.000	22.000	28.000	23.000	22.000	23.000	22.000	21.000	22.000	21.000	21.000	21.000
SODIUM	190.000	185.000	220.000	185.000	240.000	240.000	200.000	250.000	250.000	270.000	310.000	340.000
SULFATE	360.000	275.000	390.000	305.000	305.000	305.000	275.000	290.000	320.000	350.000	350.000	340.000
SULFIDE	2.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.500	0.0	0.900	0.0	0.0	0.0	0.0	7.200	-0.500	0.0	0.0	0.0
GROS ALPHA	3.500	0.0	2.500	0.0	0.0	0.0	0.0	1.100	1.000	0.0	0.0	3.700
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	310.000	380.000	430.000	400.000	400.000	410.000	400.000	340.000	400.000	370.000	390.000	370.000
PH	6.800	7.000	7.200	7.100	7.000	7.100	7.600	6.800	7.100	7.000	7.000	8.000
CONDUCTANC	1240.000	1209.000	1505.000	1650.000	1750.000	1750.000	0.0	1920.000	1600.000	1700.000	1640.000	0.0
DIS SOLIDS	890.000	1060.000	1270.000	1120.000	1190.000	1170.000	1160.000	1230.000	1030.000	1220.000	1280.000	0.0
MANGANESE	0.0	-0.050	0.0	-0.050	-0.050	-0.050	-0.050	0.090	-0.050	0.0	0.0	0.0
ALKALINITY	0.0	410.000	0.0	420.000	540.000	530.000	540.000	0.0	0.0	680.000	630.000	700.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE[illegible]S -- CORE HOLE ID GS-17

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
SPECTROGRAPHIC												
ALUMINUM	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.500	1.000	0.500
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100
BARIUM	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.0	1.000	0.0	0.0	0.0	0.0	0.100	0.100	0.500	1.000	5.000
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.0	1.000	0.0	0.0	0.0	0.0	5.000	0.200	0.500	5.000	0.100
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.0	5.000	0.0	0.0	0.0	0.0	0.100	0.100	0.100	0.050	0.100
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.010	0.0	0.0	0.050
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100	5.000	5.000	1.000
POTASSIUM	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	0.0	20.000	0.0	0.0	0.0	0.0	20.000	20.000	99999.000	99999.000	99999.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	99999.000	99999.000	99999.000	99999.000	99999.000

WATER QUALITY ANALYSIS RE -- CORE HOLE ID CS-17

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100	0.500	0.100	0.500
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.010
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-17

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151719.55 Y- 229929.78 Z- 0.0
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16	17	18	19	20	21
DATE	11875	12575	13175	20175	20275	20375	32175	32475	42975
DEPTH	0.0	0.0	0.0	0.0	0.0	0.0	346.71	375.00	368.64
TEMP	61.7	62.6	61.7	63.5	64.0	63.5	61.5	57.2	57.2
LAB ID									
LAB NUM	8160	7701	8159	8156	8157	8155	8154	8156	176
METHOD	2	2	2	2	2	2	3	3	3
AQUIF.LOC.	L	L	L	L	L	L	L	L	L
WET									
ALUMINUM	-0.010	0.050	-0.010	-0.010	-0.010	-0.010	0.260	0.390	0.0
AMMONIA	0.0	-0.100	0.0	0.0	0.0	0.840	1.400	1.600	0.600
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	760.000	840.000	850.000	855.000	930.000	885.000	7400.000	840.000	710.000
CADMIUM	-0.001	-0.010	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.010
CALCIUM	82.000	81.000	42.000	41.000	60.000	42.000	-1.000	25.000	34.000
CARBONATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	140.000	-0.100	75.000
CHLORIDE	14.000	9.600	19.000	18.000	20.000	25.000	110.000	19.000	21.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
COPPER	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.100
FLUORIDE	8.000	3.000	18.000	5.000	6.000	6.000	30.000	4.000	6.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.340	0.150	0.120	-0.050	-0.050	0.110	3.000	8.900
LEAD	0.002	-0.010	0.002	0.002	0.002	0.002	0.006	0.003	0.100
MAGNESIUM	43.000	37.000	46.000	44.000	42.000	44.000	6.800	44.000	57.000
MERCURY	-0.001	-0.010	-0.001	-0.001	-0.001	-0.001	-0.001	0.002	-0.010
NITRATE	-0.100	0.300	-0.100	0.300	0.100	0.200	-0.100	0.260	0.200
PHOSPHATE	-0.100	-0.100	0.200	-0.100	-0.100	-0.100	2.400	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	19.000	19.000	16.000	15.000	16.000	14.000	7.600	4.500	4.700
SODIUM	320.000	330.000	380.000	390.000	390.000	375.000	2950.000	385.000	350.000
SULFATE	375.000	330.000	330.000	330.000	345.000	305.000	3.500	350.000	320.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.100	-0.010	-0.001	-0.001	-0.001	-0.001	0.060	0.050	0.200
GROS ALPHA	0.300	0.0	3.100	3.100	4.400	5.100	23.000	2.500	0.0
GROSS BETA	15.000	0.0	18.000	28.000	22.000	16.000	260.000	4.000	0.0
HARDNESS	380.000	350.000	290.000	285.000	325.000	285.000	28.000	245.000	320.000
PH	7.000	7.200	7.300	7.100	7.300	6.600	8.400	6.400	6.300
CONDUCTANC	1640.000	2000.000	1850.000	1670.000	1850.000	1650.000	7800.000	1750.000	1525.000
DIS SOLIDS	1230.000	1220.000	1270.000	1260.000	1330.000	1240.000	6870.000	1250.000	1220.000
MANGANESE	-0.010	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	0.320	0.090
ALKALINITY	620.000	685.000	285.000	700.000	760.000	725.000	6185.000	690.000	641.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.270	0.800	0.550	0.570	0.500	0.550	0.800	-0.010	0.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.001	-0.010	-0.001	-0.001	-0.001	0.002	0.008	0.001	-0.010
NICKEL	0.005	-0.010	0.008	0.005	0.004	-0.010	0.006	0.003	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.000

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SAMPLES	13	14	15	16	17	18	19	20	21
SPECTROGRAPHIC									
ALUMINUM	0.010	0.100	0.100	0.010	0.010	0.100	0.100	0.200	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	1.000	0.100	0.100	0.100	0.100	0.100	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.001	0.001	0.010	0.001	0.001	0.001	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.005	0.100	0.050	0.010	0.010	0.100	0.100	0.500	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.010	0.0	0.0	0.0	0.010	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	0.0
MANGANESE	0.050	0.001	0.010	0.010	0.005	0.010	0.010	0.100	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.002	0.005	0.005	0.001	0.0	0.0	0.001	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.200	0.100	0.500	0.200	0.200	2.000	1.000	5.000	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	10.000	5.000	5.000	5.000	10.000	10.000	5.000	0.0
SILVER	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0

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WATER QUALITY ANALYSIS R S -- CORE HOLE ID GS-17

SAMPLES	13	14	15	16	17	18	19	20	21
STRONTIUM	0.500	0.100	0.100	0.100	0.050	0.0	0.100	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.001	0.010	0.0	0.010	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

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JOB#- OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 163429.76 Y- 229033.32 Z- 0.0
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6
DATE	111174	111274	111674	111674	52175	52475
DEPTH	235.00	781.00	1306.00	1586.00	0.0	0.0
TEMP	49.0	61.0	66.0	30.0	81.5	65.6
LAB ID						
LAB NUM	5072	5073	5074	5075	491	427
METHOD	1	1	1	1	2	2
AQUIF.LOC.	U	U	L	L	L	L
WET						
ALUMINUM	0.200	0.600	0.400	-0.100	0.0	0.0
AMMONIA	0.850	0.260	5.600	0.550	0.0	2.700
ARSENIC	0.070	-0.010	-0.010	0.050	-0.010	-0.010
BICARBONAT	550.000	1500.000	2230.000	3860.000	11800.000	1660.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	54.000	52.000	12.000	4.500	4.900	3.300
CARBONATE	-0.100	110.000	190.000	160.000	1010.000	815.000
CHLORIDE	9.700	39.000	56.000	87.000	130.000	93.000
CHROMIUM	-0.050	-0.050	-0.050	-0.050	0.0	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	2.900	10.000	10.000	9.900	40.000	37.000
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0
IRON	0.200	0.080	0.130	0.130	0.500	0.400
LEAD	-0.050	0.060	0.080	0.090	0.070	0.080
MAGNESIUM	63.000	16.000	7.800	4.300	12.000	4.800
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	-0.100	-0.100	-0.100	-0.100	0.100
PHOSPHATE	0.100	0.100	0.400	0.100	-0.100	0.200
POTASSIUM	76.000	17.000	33.000	17.000	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	24.000	16.000	14.000	18.000	16.000	16.000
SODIUM	180.000	720.000	1080.000	1850.000	5290.000	1400.000
SULFATE	260.000	86.000	-4.000	24.000	-5.000	50.000
SULFIDE	0.700	1.400	2.400	2.000	0.0	0.0
ZINC	0.800	-0.500	-0.500	-0.500	0.100	0.100
GROS ALPHA	10.000	0.0	3.400	15.000	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	390.000	200.000	62.000	29.000	62.000	28.000
PH	6.200	7.200	9.000	8.500	8.400	7.300
CONDUCTANC	1220.000	2500.000	4000.000	4200.000	15800.000	5300.000
DIS SOLIDS	1070.000	2130.000	3180.000	4380.000	12200.000	3230.000
MANGANESE	0.0	0.0	0.0	0.0	-0.050	-0.050
ALKALINITY	0.0	0.0	0.0	0.0	10480.000	705.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	18.000	2.600
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.070	0.050
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE S -- CORE HOLE ID GS-18

SAMPLES	1	2	3	4	5	6
SPECTROGRAPHIC						
ALUMINUM	0.500	0.500	0.100	0.100	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.050	0.050	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	10.000	5.000	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.0	0.0	0.400	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	20.000	20.000	10.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	0.100	99999.000	0.0	0.0

RBOSP PROGRESS REPORT
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WATER QUALITY ANALYSIS RES -- CORE HOLE ID GS-18

SAMPLES	1	2	3	4	5	6
STRONTIUM	0.100	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.500	0.0	0.500	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0

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                              WATER QUALITY ANALYSIS RE     -- CORE HOLE ID GS-19

JOB#-741-40F          OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 158526.87 Y- 223333.98 Z-      0.0
DATE DRILL COMPL-      0  DATE CONV TO MONITOR-      0  AQUIFER 1:  142.00- 800.00FT  AQUIFER 2: 1100.00-1410.00FT


SAMPLES                 1          2          3          4          5          6          7          8          9

DATE               112774     121774     121874      40775      40875      40875      41275      42475      42575
DEPTH              142.00     841.00    1410.00        0.0        0.0        0.0        0.0        0.0        0.0
TEMP                 44.0       53.0       61.0        0.0        0.0        0.0       63.1       63.1        0.0
LAB ID
LAB NUM              5076       6182       6183       8884       8885       8886        178        177        179
METHOD                  1          1          1          2          2          2          2          2          2
AQUIF.LOC.              U          U          C          L          L          L          L          L          L

WET

ALUMINUM            0.200        0.0        0.0     -0.100      0.500     -0.100        0.0        0.0        0.0
AMMONIA             1.900      2.000      1.200        0.0        0.0      1.400      0.600      1.400      0.600
ARSENIC            -0.010     -0.010     -0.010      0.020     -0.010     -0.010     -0.010     -0.010     -0.010
BICARBONAT        430.000     -0.100    890.000   1540.000   2260.000   2120.000   1090.000   2320.000   1420.000
CADMIUM            -0.010      0.030      0.020     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
CALCIUM           100.000    780.000     15.000     14.000     12.000     26.000     82.000     12.000     51.000
CARBONATE          -0.100   1190.000     -0.100     -0.100     -0.100     -0.100     30.000    185.000     -0.100
CHLORIDE            2.800    180.000     37.000     -1.000      5.600      4.200     25.000    130.000     32.000
CHROMIUM           -0.050     -0.050     -0.050     -0.010     -0.010     -0.010     -0.010        0.0        0.0
COPPER             -0.100     -0.100     -0.100     -0.010     -0.010     -0.010     -0.100     -0.100     -0.100
FLUORIDE            4.600      0.800     16.000      3.200     -0.050      0.190     11.000     66.000     14.000
HYDROXIDE          -0.100    380.000     -0.100        0.0        0.0        0.0        0.0        0.0        0.0
IRON                0.400     -0.050     16.000     18.000     33.000     29.000      0.200     -0.050     -0.050
LEAD               -0.050      0.060     -0.050      0.070      0.070      0.080      0.060      0.040      0.080
MAGNESIUM          42.000     -0.100     68.000     15.000      3.200      2.800     19.000     14.000     27.000
MERCURY            -0.010        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
NITRATE            -0.100      0.600      0.600      0.100     -0.100     -0.100      0.100     -0.100      0.100
PHOSPHATE          -0.100     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100     -0.100
POTASSIUM          36.000     75.000      6.300        0.0        0.0        0.0        0.0        0.0        0.0
SELENIUM           -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
SIL DIOXID         32.000      2.300     23.000      7.200     11.000     16.000     22.000     11.000     18.000
SODIUM             70.000    150.000    350.000    635.000    900.000    850.000    440.000   1190.000    595.000
SULFATE           310.000     50.000    280.000    155.000     44.000     68.000    225.000     80.000    200.000
SULFIDE            -0.500        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
ZINC               -0.500     -0.500     -0.500      0.140     -0.010      0.600     -0.100     -0.100     -0.100
GROS ALPHA            0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
GROSS BETA            0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
HARDNESS          430.000   1870.000    320.000     95.000     44.000     76.000    285.000     88.000    235.000
PH                  6.600      9.500      7.200      8.000      8.100      7.700      7.200      7.200      7.200
CONDUCTANC        850.000   4700.000   1910.000   2510.000   3200.000   3000.000   1800.000   2200.000   1900.000
DIS SOLIDS        830.000   2540.000   1180.000   1600.000   2110.000   2040.000   1390.000   2820.000   1630.000
MANGANESE             0.0     -0.050      0.230      0.130     -0.050     -0.050     -0.050     -0.050     -0.050
ALKALINITY            0.0        0.0        0.0   1265.000   1850.000   1735.000    920.000   2050.000   1170.000
CYANIDE               0.0        0.0        0.0     -0.010     -0.100     -0.010     -0.010     -0.010     -0.010
BORON                 0.0        0.0        0.0      0.300      0.800      0.800      1.800      4.500      2.800
BARIUM                0.0        0.0        0.0     -1.000     -1.000     -1.000     -0.100     -1.000     -1.000
SILVER                0.0        0.0        0.0     -0.010     -0.010     -0.010     -0.010     -0.010     -0.010
NICKEL                0.0        0.0        0.0      0.020      0.030      0.010      0.010      0.050      0.020
LITHIUM               0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0        0.0
TOC                   0.0        0.0        0.0        0.0        0.0        0.0      5.000     13.000      4.000
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SPECTROGRAPHIC

SAMPLES	1	2	3	4	5	6	7	8	9
ALUMINUM	0.500	0.200	0.100	0.200	0.050	0.010	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.100	0.100	0.100	0.100	0.100	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	99999.000	99999.000	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.010	0.0	0.010	0.001	0.010	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.020	10.000	0.200	0.050	0.050	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.100	0.100	0.0	0.010	0.010	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0
MANGANESE	0.0	0.010	0.200	0.020	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.010	0.001	0.0	0.0	0.005	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	99999.000	99999.000	2.000	5.000	5.000	5.000	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	5.000	20.000	5.000	5.000	10.000	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GS-19

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GSM-1

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151453.91 Y- 232774.44 Z- 7452.20

DATE DRILL COMPL-111574 DATE CONV TO MONITOR- 0 AQUIFER 1: 600.00- 800.00FT AQUIFER 2: 1360.00-1500.00FT

SAMPLES	1	2	3	4	5	6	7	8	9
DATE	111374	111474	111574	32975	32975	42275	42275	50875	50875
DEPTH	1010.00	1404.00	1887.00	807.05	632.72	629.44	821.71	825.72	627.64
TEMP	52.0	69.0	64.0	57.2	55.6	55.2	59.2	58.6	57.8
LAB ID									
LAB NUM	5063	5064	5065	8887	8888	9943	9942	9944	9945
METHOD	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	C	C	L	U	U	L	L	U
WET									
ALUMINUM	0.100	-0.100	-0.100	0.300	0.400	0.0	0.0	0.0	0.0
AMMONIA	0.140	0.110	0.490	-0.100	0.100	1.200	-0.100	-0.100	-0.100
ARSENIC	0.010	0.040	0.150	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	340.000	2070.000	2620.000	355.000	390.000	370.000	370.000	450.000	390.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	67.000	9.000	27.000	16.000	27.000	66.000	30.000	16.000	51.000
CARBONATE	8.400	66.000	-0.100	9.000	-0.100	18.000	24.000	-0.100	12.000
CHLORIDE	11.000	78.000	35.000	5.900	9.700	14.000	16.000	17.000	13.000
CHROMIUM	-0.050	-0.050	-0.050	-0.010	-0.010	0.0	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	0.080	0.780	-0.100	-0.100	-0.100	-0.100
FLUORIDE	1.000	8.100	9.500	0.400	0.200	0.100	0.400	0.400	0.100
HYDROXIDE	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.130	0.060	0.460	2.100	2.000	1.200	2.100	4.200
LEAD	-0.050	-0.050	0.060	1.500	2.500	1.000	3.600	4.600	1.100
MAGNESIUM	24.000	8.700	20.000	31.000	38.000	24.000	35.000	35.000	30.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.200	-0.100	-0.100	-0.100	0.500	-0.100	-0.100	-0.100	-0.100
PHOSPHATE	0.200	0.200	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	13.000	76.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	24.000	10.000	15.000	4.400	21.000	24.000	5.100	-0.100	22.000
SODIUM	180.000	810.000	970.000	200.000	220.000	230.000	190.000	190.000	210.000
SULFATE	320.000	-4.000	270.000	270.000	300.000	350.000	250.000	220.000	320.000
SULFIDE	0.0	0.0	5.100	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.050	-0.500	-0.500	0.310	0.540	0.400	0.300	0.400	0.400
GROS ALPHA	9.400	4.500	9.500	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	260.000	58.000	150.000	170.000	225.000	265.000	215.000	190.000	250.000
PH	7.000	8.300	8.200	6.600	6.400	6.400	6.800	6.700	6.500
CONDUCTANC	1300.000	3410.000	2600.000	1200.000	1220.000	1130.000	1050.000	1040.000	1150.000
DIS SOLIDS	810.000	2720.000	2500.000	710.000	810.000	910.000	730.000	700.000	850.000
MANGANESE	0.0	0.0	0.0	0.140	0.450	0.140	-0.050	0.400	0.150
ALKALINITY	0.0	0.0	0.0	297.400	320.000	320.000	325.000	370.000	330.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.200	0.300	0.160	0.080	0.080	0.410
BARIUM	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.020	0.020	0.020	0.020	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	6.000	17.000	17.000	9.000

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GSM-1

SAMPLES	1	2	3	4	5	6	7	8	9
SPECTROGRAPHIC									
ALUMINUM	0.500	0.050	0.0	0.100	0.100	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	5.000	0.500	0.500	1.000	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.0	0.010	0.020	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.200	0.500	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.050	0.100	0.100	0.010	0.020	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	99999.000	5.000	1.000	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	20.000	20.000	5.000	5.000	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RES[illegible]S-- CORE HOLE ID GSM-1

SAMPLES	1	2	3	4	5	6	7	8	9
STRONTIUM	0.0	0.0	0.0	0.100	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.010	0.010	0.010	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID GSM-2

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 173637.82 Y- 240533.37 Z- 6562.70
DATE DRILL COMPL-113074 DATE CONV TO MONITOR- 0 AQUIFER 1: 360.00-1160.00FT AQUIFER 2: 1985.00-2030.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	102774	102874	32975	32975	42675	42675	50775	50775
DEPTH	574.00	1355.00	353.04	234.16	232.43	353.44	353.69	232.25
TEMP	52.0	59.0	50.9	46.8	0.0	53.6	0.0	51.6
LAB ID								
LAB NUM	4304	4305	9017	9018	240	239	9946	9794
METHOD	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	L	U	U	L	L	U
WET								
ALUMINUM	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	0.300	0.200	0.100	0.300	0.200	0.100	-0.100	-0.100
ARSENIC	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	480.000	360.000	585.000	645.000	590.000	540.000	435.000	605.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010
CALCIUM	33.000	12.000	85.000	95.000	92.000	66.000	67.000	78.000
CARBONATE	24.000	30.000	-0.100	-0.100	12.000	8.600	55.000	-0.100
CHLORIDE	2.900	16.000	17.000	11.000	64.000	16.000	17.000	7.100
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	0.200	0.100	-0.010	-0.010	-0.100	-0.100	-0.100	0.020
FLUORIDE	1.600	5.100	0.200	0.100	0.200	0.200	0.200	0.200
HYDROXIDE	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.500	-0.050	0.120	-0.050	7.600	7.200	6.200	5.400
LEAD	-0.050	0.050	0.030	0.040	0.200	0.700	0.530	0.510
MAGNESIUM	28.000	6.800	115.000	135.000	130.000	130.000	115.000	140.000
MERCURY	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.100	0.100	0.600	0.700	0.700	1.200	0.100	0.300
PHOSPHATE	6.500	0.600	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	13.000	1.700	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	22.000	10.000	19.000	38.000	21.000	13.000	11.000	22.000
SODIUM	210.000	205.000	195.000	210.000	240.000	200.000	190.000	190.000
SULFATE	470.000	96.000	580.000	640.000	630.000	600.000	570.000	630.000
SULFIDE	1.700	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.120	0.270	0.400	0.600	0.400	0.620
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	196.000	58.000	685.000	790.000	780.000	690.000	635.000	770.000
PH	6.800	6.800	6.600	6.600	6.800	6.400	6.600	6.600
CONDUCTANC	1000.000	675.000	1650.000	1740.000	1820.000	1730.000	1670.000	1920.000
DIS SOLIDS	1165.000	425.000	1300.000	1450.000	1460.000	1290.000	1240.000	1370.000
MANGANESE	-0.050	-0.050	0.200	0.380	0.200	0.200	0.200	0.280
ALKALINITY	0.0	0.0	480.000	530.000	490.000	447.000	399.000	495.000
CYANIDE	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.500	0.300	-0.100	0.200	0.200	0.400	0.050	0.260
BARIUM	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.020	0.040	0.030	0.030	0.020	0.020
LITHIUM	-0.500	-0.500	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	10.000	8.000	7.000	5.000

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GSM-2

SAMPLES	1	2	3	4	5	6	7	8
SPECTROGRAPHIC								
ALUMINUM	0.050	0.100	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.050	0.050	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	-0.500	-0.500	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	10.000	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS R[illegible] -- CORE HOLE ID GSM-2

SAMPLES	1	2	3	4	5	6	7	8
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID GSM-3

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 183730.57 Y- 234224.33 Z- 6332.20
DATE DRILL COMPL-110874 DATE CONV TO MONITOR- 0 AQUIFER 1: 100.00-1000.00FT AQUIFER 2: 1450.00-1650.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	110474	110674	110874	110874	110874	32975	32975	42675	42675	50775	50775
DEPTH	477.00	1124.00	1580.00	1634.00	1650.00	134.11	20.93	136.99	20.77	20.78	135.67
TEMP	57.0	59.0	53.0	50.0	60.0	47.6	46.8	48.2	47.3	47.8	51.6
LAB ID											
LAB NUM	4584	4583	4585	4586	4573	9019	9020	241	242	9796	9947
METHOD	1	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	C	C	L	U	L	U	U	L
WET											
ALUMINUM	-0.100	-0.100	-0.100	-0.100	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	-0.100	-0.100	-0.100	-0.100	0.0	0.200	0.500	0.300	0.500	0.330	2.500
ARSENIC	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	720.000	330.000	19600.000	9900.000	11350.000	495.000	555.000	410.000	530.000	380.000	250.000
CADMIUM	-0.010	-0.010	0.070	0.040	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	51.000	13.000	0.100	23.000	14.000	11.000	42.000	26.000	34.000	25.000	24.000
CARBONATE	6.200	13.000	3000.000	390.000	640.000	63.000	-0.100	75.000	8.600	42.000	110.000
CHLORIDE	38.000	21.000	6600.000	700.000	1580.000	17.000	15.000	7.000	27.000	24.000	17.000
CHROMIUM	-0.050	-0.050	-0.050	-0.050	0.0	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	0.0	-0.010	-0.010	0.100	-0.100	0.010	-0.100
FLUORIDE	4.000	12.000	16.000	8.000	7.800	2.200	1.300	2.900	1.400	1.400	3.000
HYDROXIDE	-0.100	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.660	0.060	1.300	0.480	0.860	-0.050	-0.050	1.900	7.400	3.900	1.700
LEAD	-0.050	-0.050	0.120	0.070	0.0	0.050	0.030	0.200	0.700	0.210	0.050
MAGNESIUM	33.000	12.000	68.000	35.000	17.000	62.000	66.000	52.000	72.000	74.000	70.000
MERCURY	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.600	0.200	1.100	0.700	0.400	0.400	0.700	0.300	0.200	0.200	1.000
PHOSPHATE	-0.100	-0.100	8.200	1.800	0.0	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	-1.000	42.000	11.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	23.000	17.000	23.000	18.000	13.000	4.300	6.900	1.900	4.300	1.100	1.600
SODIUM	270.000	260.000	12000.000	4100.000	4100.000	310.000	250.000	290.000	280.000	225.000	230.000
SULFATE	360.000	120.000	5.000	210.000	200.000	420.000	440.000	410.000	490.000	400.000	425.000
SULFIDE	0.300	0.700	2.400	1.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	-0.500	0.900	0.400	0.0	0.030	1.000	0.100	0.100	0.220	0.200
GROS ALPHA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	260.000	82.000	280.000	200.000	105.000	280.000	375.000	280.000	380.000	365.000	350.000
PH	6.800	7.000	8.500	8.500	8.600	7.600	6.600	7.000	6.600	6.500	7.200
CONDUCTANC	775.000	865.000	28000.000	11500.000	14500.000	1550.000	1600.000	1460.000	1670.000	1590.000	1520.000
DIS SOLIDS	1050.000	690.000	30700.000	11600.000	12570.000	1130.000	1090.000	1090.000	1180.000	980.000	1000.000
MANGANESE	0.0	0.0	0.0	0.0	-0.050	-0.050	0.130	-0.050	0.100	0.100	-0.050
ALKALINITY	0.0	0.0	0.0	0.0	9310.000	405.000	455.000	401.000	437.000	344.000	294.000
CYANIDE	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	0.0	0.200	0.400	5.400	0.500	0.520	0.040
BARIUM	0.0	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	0.020	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.0	0.020	0.020	0.020	0.020	0.010	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.000	27.000	20.000	9.000

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WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID GSM-3

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
SPECTROGRAPHIC											
ALUMINUM	0.100	0.100	0.010	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.050	0.010	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	-0.020	1.000	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	1.000	99999.000	2.000	5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.010	0.0	0.010	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.050	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	5.000	5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE S -- CORE HOLE ID GSM-3

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
STRONTIUM	0.100	0.500	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE S — CORE HOLE ID GSM-4

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156524.43 Y- 238026.20 Z- 7182.00
DATE DRILL COMPL-110674 DATE CONV TO MONITOR- 0 AQUIFER 1: 640.00- 950.00FT AQUIFER 2: 1720.00-1990.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	110374	110374	110574	110674	32975	32975	42675	42675	50875	50875
DEPTH	970.00	1200.00	1770.00	2207.00	546.55	490.82	555.71	492.36	560.20	492.74
TEMP	58.0	59.0	65.0	72.0	54.5	54.9	57.2	55.4	56.8	56.3
LAB ID										
LAB NUM	5066	5067	4574	5068	9021	9022	243	168	167	169
METHOD	1	1	1	1	3	3	3	3	3	3
AQUIF.LOC.	U	U	C	C	L	U	L	U	L	U
WET										
ALUMINUM	0.100	-0.100	0.0	0.100	-0.100	-0.100	0.0	0.0	0.0	0.0
AMMONIA	1.800	0.930	0.0	0.570	-0.100	-0.100	0.100	-0.100	-0.010	-0.100
ARSENIC	-0.050	-0.050	0.0	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	420.000	320.000	1320.000	1510.000	610.000	850.000	540.000	900.000	530.000	900.000
CADMIUM	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	44.000	28.000	19.000	20.000	72.000	200.000	41.000	210.000	89.000	220.000
CARBONATE	-0.100	18.000	48.000	42.000	-0.100	-0.100	-0.100	-0.100	29.000	-0.100
CHLORIDE	2.800	4.200	22.000	13.000	38.000	9.700	44.000	14.000	43.000	21.000
CHROMIUM	-0.050	-0.050	0.0	-0.050	-0.010	-0.010	-0.050	-0.050	-0.050	-0.050
COPPER	-0.100	-0.100	0.0	-0.100	-0.010	-0.010	-0.100	-0.100	-0.010	-0.100
FLUORIDE	6.600	8.800	5.200	10.300	0.600	0.400	0.500	0.200	0.600	0.200
HYDROXIDE	-0.100	-0.100	0.0	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.170	-0.050	0.170	0.100	-0.050	-0.050	4.300	7.400	6.000	6.400
LEAD	0.050	-0.050	0.0	-0.050	0.030	0.020	0.400	0.750	0.750	0.400
MAGNESIUM	36.000	27.000	19.000	7.800	92.000	94.000	99.000	89.000	67.000	90.000
MERCURY	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.500	0.400	1.300	-0.100	0.300	0.300	-0.100	0.200	0.100	-0.100
PHOSPHATE	0.100	0.300	0.0	0.200	-0.100	-0.100	-0.100	-0.100	0.100	-0.100
POTASSIUM	-1.000	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	21.000	17.000	15.000	17.000	32.000	43.000	27.000	45.000	25.000	45.000
SODIUM	260.000	240.000	490.000	660.000	255.000	210.000	290.000	270.000	310.000	260.000
SULFATE	420.000	350.000	220.000	180.000	540.000	610.000	570.000	630.000	550.000	600.000
SULFIDE	3.700	4.100	0.0	2.400	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.500	-0.500	0.0	-0.500	0.040	0.150	0.600	4.400	10.000	1.000
GROS ALPHA	3.500	5.400	0.0	3.500	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	260.000	180.000	130.000	82.000	555.000	390.000	510.000	900.000	500.000	910.000
PH	7.000	8.500	7.600	8.000	6.400	6.400	6.800	6.800	6.800	7.100
CONDUCTANC	1050.000	1120.000	3078.000	4987.000	1730.000	2050.000	1730.000	2240.000	2640.000	3120.000
DIS SOLIDS	1120.000	790.000	1840.000	2050.000	1330.000	1580.000	1360.000	1710.000	1380.000	1660.000
MANGANESE	0.0	0.0	-0.050	0.0	0.110	0.420	0.050	0.300	0.090	0.300
ALKALINITY	0.0	0.0	1120.000	0.0	500.000	700.000	440.000	740.000	454.000	740.000
CYANIDE	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.0	0.0	0.0	0.0	-0.010	-0.100	0.400	-0.100	0.200	0.200
BARIUM	0.0	0.0	0.0	0.0	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.0	0.0	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.0	0.0	0.0	0.0	0.030	0.030	0.030	0.030	0.030	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	0.0	0.0	0.0	0.0	15.000	12.000	37.000	11.000

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID GSM-4

SAMPLES	1	2	3	4	5	6	7	8	9	10
SPECTROGRAPHIC										
ALUMINUM	0.100	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.0	5.000	0.0	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.050	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	1.000	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	20.000	0.0	20.000	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	0.0	99999.000	0.0	0.0	0.0	0.0	0.0	[illegible]

WATER QUALITY ANALYSIS R S -- CORE HOLE ID GSM-4

SAMPLES	1	2	3	4	5	6	7	8	9	10
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RE -- CORE HOLE ID TO-1

JOB#-741-40F OWNER-TOSCO LOCATIONS: X- 158619.60 Y- 223358.84 Z- 6745.00
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 220.00- 440.00FT AQUIFER 2: 960.00-1100.00FT

SAMPLES	1	2	3	4	5
DATE	32975	42875	42975	51775	51775
DEPTH	72.08	25.60	157.50	123.00	26.90
TEMP	48.2	46.4	56.3	52.7	48.9
LAB ID					
LAB NUM	8678	172	171	432	433
METHOD	3	3	3	3	3
AQUIF.LOC.	L	U	L	L	U
WET					
ALUMINUM	1.600	0.0	0.0	0.0	0.0
AMMONIA	0.800	-0.100	-0.100	0.500	0.800
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	440.000	110.000	350.000	420.000	98.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	9.800	17.000	16.000	5.000	8.000
CARBONATE	84.000	-0.100	40.000	100.000	6.000
CHLORIDE	5.600	36.000	36.000	14.000	34.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	0.200	0.190	0.100	-0.100	0.100
FLUORIDE	0.1[illegible]0	0.600	0.600	6.000	0.700
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	9.900	8.700	2.200	3.400	4.800
LEAD	0.090	3.400	0.600	0.200	1.000
MAGNESIUM	20.000	12.000	54.000	14.000	3.900
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010
NITRATE	0.100	-0.100	-0.100	0.200	-0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	-0.100	1.900	4.700	1.700	0.500
SODIUM	245.000	140.000	210.000	260.000	170.000
SULFATE	96.000	270.000	300.000	70.000	275.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.600	1.600	0.600	3.200	0.400
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	110.000	90.000	260.000	72.000	35.000
PH	7.8[illegible]0	6.000	6.400	7.000	6.800
CONDUCTANC	1050.000	810.000	1130.000	1160.000	810.000
DIS SOLIDS	690.000	540.000	830.000	680.000	550.000
MANGANESE	0.200	0.560	0.060	0.080	0.200
ALKALINITY	429.000	90.000	323.000	430.000	85.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.600	-0.100	3.300	7.000	-0.010
BARIUM	-1.000	-1.000	-0.100	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.040	0.030	0.010	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	21.000	16.000	12.000	17.000

RBOSP PROGRESS REPORT

WATER QUALITY ANALYSIS RES -- CORE HOLE ID TC-1

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.0	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.0	0.0	0.0	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.0	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	0.0	0.0	0.0	0.0	0.0
MANGANESE	0.0	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	0.0	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	0.0	0.0	0.0	0.0	0.0

RBOSP PROGRESS REPORT

SAMPLES	1	2	3	4	5
STRONTIUM	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS R[illegible]S -- CORE HOLE ID TC-2

JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 151813.11 Y- 229906.56 Z- 0.0
DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5
DATE	32475	42875	42975	51775	51775
DEPTH	340.36	119.60	361.90	118.30	354.40
TEMP	53.6	50.0	56.3	53.6	56.5
LAB ID					
LAB NUM	8162	174	173	435	434
METHOD	3	3	3	3	3
AQUIF.LOC.	L	U	L	U	L
WET					
ALUMINUM	0.200	0.0	0.0	0.0	0.0
AMMONIA	1.400	-0.100	0.400	0.300	0.200
ARSENIC	-0.010	-0.010	-0.010	0.020	-0.010
BICARBONAT	370.000	600.000	520.000	575.000	310.000
CADMIUM	-0.001	-0.010	-0.010	-0.010	-0.010
CALCIUM	18.000	97.000	21.000	110.000	5.000
CARBONATE	36.000	-0.100	120.000	-0.100	36.000
CHLORIDE	15.000	87.000	21.000	20.000	14.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010
COPPER	0.100	0.100	-0.100	-0.100	0.100
FLUORIDE	4.800	0.200	0.800	0.200	0.700
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	3.100	7.500	2.000	16.000	5.000
LEAD	0.003	1.600	0.200	0.500	0.200
MAGNESIUM	48.000	70.000	15.000	30.000	51.000
MERCURY	0.001	-0.010	-0.010	-0.010	-0.010
NITRATE	-0.100	0.600	0.100	-0.100	-0.100
PHOSPHATE	-0.100	-0.100	-0.100	0.300	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	9.500	35.000	2.700	40.000	2.000
SODIUM	210.000	250.000	400.000	170.000	190.000
SULFATE	320.000	390.000	310.000	200.000	305.000
SULFIDE	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.900	0.400	0.300	0.800
GROS ALPHA	1.600	0.0	0.0	0.0	0.0
GROSS BETA	21.000	0.0	0.0	0.0	0.0
HARDNESS	240.000	530.000	110.000	400.000	220.000
PH	6.400	6.800	6.800	6.600	7.200
CONDUCTANC	1130.000	1380.000	1120.000	1420.000	1100.000
DIS SOLIDS	840.000	1230.000	1150.000	870.000	760.000
MANGANESE	0.140	0.200	0.050	0.100	0.060
ALKALINITY	335.000	490.000	528.000	470.000	280.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.010	-0.100	1.100	0.300	0.400
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.002	-0.010	-0.010	-0.010	-0.010
NICKEL	0.002	0.040	0.030	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0
TOC	0.0	8.000	17.000	6.000	15.000

BBOSP PROGRESS REPORT

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SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.050	0.0	0.0	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.0	0.0	0.0	0.0
CADMIUM	99999.000	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.0	0.0	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.0	0.0	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	0.0	0.0	0.0
MANGANESE	0.010	0.0	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	0.0	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	0.0	0.0	0.0	0.0
SILVER	0.000	0.0	0.0	0.0	0.0
SODIUM	5.000	0.0	0.0	0.0	0.0

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SAMPLES	1	2	3	4	5
STRONTIUM	0.100	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

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JOB#-741-40          OWNER-TOSCO                            LOCATIONS: X- 163350.43 Y- 228948.10 Z-    6665.00
DATE DRILL COMPL-      0  DATE CONV TO MONITOR-      0  AQUIFER 1:  240.00-1000.00FT  AQUIFER 2: 1240.00-16[illegible]0.00FT


SAMPLES              1          2          3          4          5

DATE             10775      10775      11575      32175      42275
DEPTH              0.0        0.0        0.0      48.38      48.50
TEMP              73.4       76.1       75.2       64.0       59.9
LAB ID
LAB NUM           6176       6177       6298       8161        175
METHOD               2          2          2          3          3
AQUIF.LOC.           U          U          U          U          U

WET

ALUMINUM          0.0        0.0        0.0     -0.010      0.0
AMMONIA           2.600      0.900      0.0        0.0        1.300
ARSENIC          -0.010     -0.010      0.0     -0.010     -0.010
BICARBONAT     2180.000   1010.000   2690.000   2520.000   2170.000
CADMIUM           0.020     -0.010      0.0     -0.001     -0.010
CALCIUM          61.000     80.000     17.000     34.000     29.000
CARBONATE        -0.100     -0.100     -0.100     -0.100    170.000
CHLORIDE        230.000     31.000     45.000     55.000     50.000
CHROMIUM         -0.050     -0.050      0.0     -0.010      0.050
COPPER           -0.100     -0.100      0.0     -0.010     -0.100
FLUORIDE         25.000     10.000     19.000     60.000     27.000
HYDROXIDE        -0.100     -0.100      0.0        0.0        0.0
IRON              0.070      0.070     -0.050      0.310      4.700
LEAD              0.060     -0.050      0.0        0.002      0.200
MAGNESIUM         9.300     34.000     20.000     18.000     22.000
MERCURY           0.0        0.0        0.0        0.007     -0.010
NITRATE           0.600      0.300      0.300     -0.100      0.300
PHOSPHATE        -0.100     -0.100      0.0     -0.100     -0.100
POTASSIUM         3.500     -1.000      0.0        0.0        0.0
SELENIUM         -0.010     -0.010      0.0     -0.010     -0.010
SIL DIOXID       20.000     19.000     22.000     26.000     35.000
SODIUM          940.000    520.000   1030.000   1060.000   1170.000
SULFATE          32.000    240.000     66.000    140.000     65.000
SULFIDE           0.0        0.0        0.0        0.0        0.0
ZINC              1.200     -0.500      0.0     -0.100      0.200
GROS ALPHA        0.0        2.400      0.0        4.000      0.0
GROSS BETA        0.0        0.0        0.0       38.000      0.0
HARDNESS        190.000    340.000    120.000    155.000    160.000
PH                7.400      7.300      7.400      7.000      7.400
CONDUCTANC     6200.000   4000.000   3540.000   3610.000   3900.000
DIS SOLIDS     2850.000   1220.000   2360.000   2630.000   2850.000
MANGANESE         0.200     -0.050     -0.050      0.240     -0.050
ALKALINITY        0.0        0.0     2180.000   2065.000   2360.000
CYANIDE           0.0        0.0        0.0     -0.010     -0.010
BORON             0.0        0.0        0.0        0.150      4.400
BARIUM            0.0        0.0        0.0     -1.000     -1.000
SILVER            0.0        0.0        0.0     -0.001     -0.010
NICKEL            0.0        0.0        0.0        0.007      0.050
LITHIUM           0.0        0.0        0.0        0.0        0.0
TOC               0.0        0.0        0.0        0.0        7.000
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RBOSP PROGRESS REPORT

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WATER QUALITY ANALYSIS RE S -- CORE HOLE ID TO-3

SAMPLES	1	2	3	4	5
SPECTROGRAPHIC					
ALUMINUM	0.100	0.100	0.010	0.100	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.010	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.400	0.100	0.100	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.0	0.001	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.010	0.050	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.100	0.010	0.050	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	5.000	99999.000	99999.000	99999.000	0.0
MANGANESE	1.000	0.010	0.0	0.001	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.0	0.001	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.100	5.000	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	15.000	15.000	20.000	2.000	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	0.0

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SAMPLES	1	2	3	4	5
STRONTIUM	0.0	0.0	0.100	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

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                              WATER QUALITY ANALYSIS RE      — CORE HOLE ID USBM 2                                  130

    JOB#-                OWNER-CAMERON                   LOCATIONS: X-       0.0  Y-       0.0  Z-       0.0
    DATE DRILL COMPL-      0  DATE CONV TO MONITOR-      0  AQUIFER 1:     0.0 -    0.0 FT  AQUIFER 2:    0.0 -    0.0 FT

    SAMPLES              1          2

    DATE             82966      92766
    DEPTH          2100.00    1200.00
    TEMP              70.0       67.0
    LAB ID
    LAB NUM              0          0
    METHOD               1          1
    AQUIF.LOC.           C          U

    WET

    ALUMINUM        0.0        0.0
    AMMONIA         0.0        0.0
    ARSENIC         0.0        0.0
    BICARBONAT    564.000    494.000
    CADMIUM         0.0        0.0
    CALCIUM         6.400      6.000
    CARBONATE       0.0        0.0
    CHLORIDE        3.000      5.000
    CHROMIUM        0.0        0.0
    COPPER          0.0        0.0
    FLUORIDE        6.800      0.300
    HYDROXIDE       0.0        0.0
    IRON            0.0        0.0
    LEAD            0.0        0.0
    MAGNESIUM       0.0        0.0
    MERCURY         0.0        0.0
    NITRATE         0.300      0.200
    PHOSPHATE       0.0        0.0
    POTASSIUM       0.0        0.0
    SELENIUM        0.0        0.0
    SIL DIOXID     13.000     13.000
    SODIUM        248.000    235.000
    SULFATE        97.000    113.000
    SULFIDE         0.0        0.0
    ZINC            0.0        0.0
    GROS ALPHA      0.0        0.0
    GROSS BETA      0.0        0.0
    HARDNESS       40.000     44.000
    PH              8.100      8.200
    CONDUCTANC   1200.000   1000.000
    DIS SOLIDS    650.000    621.000
    MANGANESE       0.0        0.0
    ALKALINITY      0.0        0.0
    CYANIDE         0.0        0.0
    BORON           0.0        0.0
    BARIUM          0.0        0.0
    SILVER          0.0        0.0
    NICKEL          0.0        0.0
    LITHIUM         0.0        0.0
    TOC             0.0        0.0
```

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SAMPLES	1	2
SPECTROGRAPHIC		
ALUMINUM	0.0	0.0
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.0	0.120
CADMIUM	0.0	0.0
CALCIUM	0.0	0.0
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.0	0.0
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.0	0.0
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.0	0.0
LUTETIUM	0.0	0.0
MAGNESIUM	0.0	0.0
MANGANESE	0.0	0.0
MERCURY	0.0	0.0
MOLYBDENUM	0.0	0.0
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0
PLATINUM	0.0	0.0
POTASSIUM	0.400	0.500
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	0.0	0.0
SILVER	0.0	0.0
SODIUM	0.0	0.0

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WATER QUALITY ANALYSIS R[illegible]S — CORE HOLE ID USBM 2

SAMPLES	1	2
STRONTIUM	0.0	0.0
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

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DEEP AQUIFER MONITORING

Section 1.2.7

1.2.7 Deep Aquifer Monitoring

Water quality data obtained during deep aquifer monitoring is included in section 1.2.6 of this volume of the raw data submission. The reason for this inclusion is becasue water quality data has been used to aid in the definition of the aquifer system underlying tract C-a. In subsequent progress reports the wet chemical analyses as well as the spectographic analyses, of water samples obtained during the deep aquifer monitoring program will be placed under section 1.2.7, the Deep Aquifer Monitoring program. Water level data is likewise included in the upper and lower aquifer pump testing program. Water levels are used in calculating transmissivity and coefficient of storage for each of the observation wells responding to any particular pump test.

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